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## EIU Graduate Catalog 1984-1985

Eastern Illinois University

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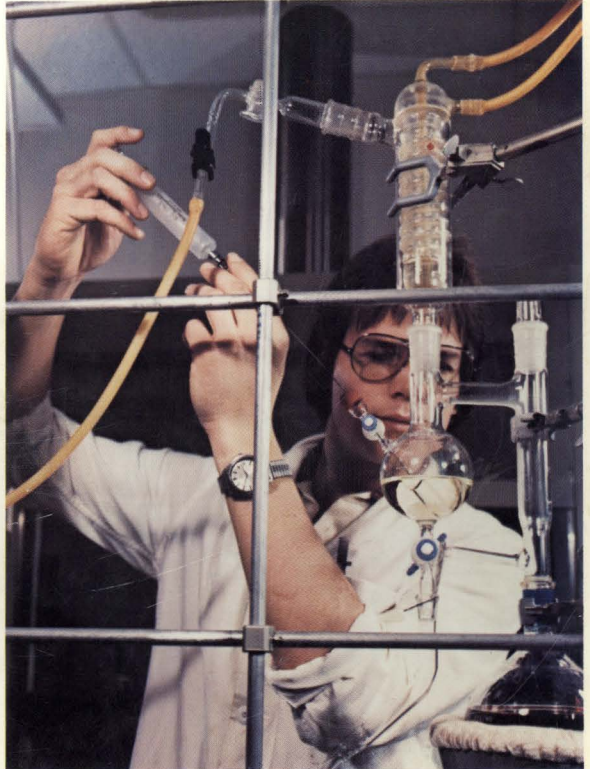
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# graduate catalog 1984 & 1985



## Eastern Illinois University



*The provisions of this catalog are not to be regarded as irrevocable contractual commitments between the University and student. The University reserves the right to change any provision or requirement contained herein at any time within the student's term of residence.*

## THE STUDENT'S RESPONSIBILITY

All colleges establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisors and deans will always help students meet these requirements, but students themselves are responsible for fulfilling them. At the end of their course the University decides whether or not the students will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for students to acquaint themselves with the requirements and continue to keep themselves informed about them during their college career.

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that students understand the policies and know the regulations and procedures they are expected to follow. When changes are announced between catalog publications, they are published in the Official Notices in the *Eastern News* and posted on the official bulletin board near the Office of the Dean of Student Academic Services. Students are responsible for knowing these changes.

The catalog is presented, therefore, not only to enable prospective students and others to learn about Eastern Illinois University, Charleston, but to state policies, requirements, regulations, and procedures in such form as will be of help to students as they go through school.

## THE UNIVERSITY POLICY ON NON-DISCRIMINATION

The policy of Eastern Illinois University is to comply fully with applicable federal and state non-discrimination and equal opportunity laws, orders, and regulations. Eastern Illinois University will not discriminate in its programs and activities against any person because of race, color, national origin, ancestry, religion, age, sex, handicap, or status as a disabled veteran or veteran of the Vietnam era. This non-discrimination policy applies to admissions, employment, treatment of individuals, and access to programs. Inquiries concerning this policy may be directed to the appropriate admitting or employing unit or the Affirmative Action Office.

# EASTERN ILLINOIS UNIVERSITY GRADUATE CATALOG

**JANUARY, 1984**



**CHARLESTON, ILLINOIS**

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## UNIVERSITY CALENDAR

### SPRING SEMESTER 1984

Last Day for Full Tuition and Fee Refund .....	Jan 6
Early Graduate Registration .....	Jan 7
Central Registration .....	Jan 9, 10
Schedule Changes .....	Jan 11
Begin Late Registration Fee .....	Jan 12
First Class Day .....	Jan 12
Last Day to Submit Add or Pass-Fail Requests .....	Jan 13
King's Birthday Observance — No Classes .....	Jan 16
Last Day to Submit Audit Requests .....	Jan 18
Last Day to Apply or Reapply for Graduation .....	Jan 20
Last Day for Full Refund of Tuition and Fees (Except Insurance) .....	Jan 26
Last Day for Course Withdrawal Without Grade .....	Jan 26
Begin W Upon Course Withdrawal .....	Jan 27
Last Day for 50% Refund of Tuition and Fees (Except Insurance) .....	Feb 9
Last Day for Grade Appeal .....	Feb 9
Lincoln's Birthday Observance — No Classes .....	Feb 13
Mid-Term .....	Mar 7
Last Day for W Upon Course Withdrawal .....	Mar 13
Begin WP or WF Upon Course Withdrawal .....	Mar 14
Last Day to Withdraw from Courses or University .....	Mar 23
Spring Recess .....	Mar 24 thru April 1
Last Class Day .....	May 4
Final Examinations .....	May 7 thru 11
Commencement .....	May 12
Semester Closes .....	May 12

### SUMMER TERM 1984

#### Intersession

Central Registration .....	May 4, 21
First Class Day .....	May 21
Begin Late Registration Fee .....	May 22
Last Day to Submit Add, Pass-Fail or Audit Requests .....	May 23
Last Day for Full Refund of Tuition and Fees .....	May 24
Last Day for Course Withdrawal Without Grade .....	May 24
Begin W Upon Course Withdrawal .....	May 25
Memorial Day Observance — No Classes .....	May 28
Last Day to Withdraw from Courses or University .....	June 12
Last Class Day .....	June 14
Final Examinations .....	June 14
Session Closes .....	June 15
Last Day to Apply or Reapply for Graduation .....	June 26
Commencement .....	Aug 12

**SUMMER TERM 1984****Five Week Session**

Last Day for Full Tuition and Fee Refund	June 15
Central Registration	June 18
Begin Late Registration Fee	June 19
First Class Day	June 19
Last Day to Submit Add, Pass-Fail or Audit Requests	June 21
Last Day for Full Refund of Tuition and Fees (Except Insurance)	June 26
Last Day to Apply or Reapply for Graduation	June 26
Last Day for Course Withdrawal Without Grade	June 26
Begin W Upon Course Withdrawal	June 27
Last Day for 50% Refund of Tuition and Fees (Except Insurance)	July 3
Independence Day Observance — No Classes	July 4
Last Day to Withdraw from Courses or University	July 16
Last Day for Grade Appeal	July 18
Last Class Day	July 24
Final Examinations	July 25
Session Closes	July 26
Commencement	Aug 12

**SUMMER TERM 1984****Eight-Week Session**

Last Day for Full Tuition and Fee Refund	June 15
Central Registration	June 18
Begin Late Registration Fee	June 19
First Class Day	June 19
Last Day to Submit Add, Pass-Fail or Audit Requests	June 21
Last Day for Full Refund of Tuition and Fees (Except Insurance)	June 26
Last Day to Apply or Reapply for Graduation	June 26
Last Day for Course Withdrawal Without Grade	June 26
Begin W Upon Course Withdrawal	June 27
Last Day for 50% Refund of Tuition and Fees (Except Insurance)	July 3
Independence Day Observance — No Classes	July 4
Mid-Term	July 17
Last Day for Grade Appeal	July 18
Last Day to Withdraw from Courses or University	July 23
Last Class Day	Aug 9
Commencement	Aug 12
Final Examinations	Aug 13, 14, 15
Session Closes	Aug 16

**FALL SEMESTER 1984**

Last Day for Full Tuition and Fee Refund	Aug 24
Early Graduate Registration	Aug 25
Central Registration	Aug 27, 28
Schedule Changes	Aug 29
Begin Late Registration Fee	Aug 30
First Class Day	Aug 30

Last Day to Submit Add or Pass-Fail Requests	Aug 31
Labor Day Observance - No Classes	Sep 3
Last Day to Submit Audit Requests	Sep 5
Last Day to Apply or Reapply for Graduation	Sep 7
Last Day for Full Refund of Tuition and Fees (Except Insurance)	Sep 13
Last Day for Course Withdrawal Without Grade	Sep 13
Begin W Upon Course Withdrawal	Sep 14
Last Day for 50% Refund of Tuition and Fees (Except Insurance)	Sep 27
Last Day for Grade Appeal	Sep 27
Fall Recess	Oct 5
Mid-Term	Oct 19
Last Day for W Upon Course Withdrawal	Oct 30
Begin WP or WF Upon Course Withdrawal	Oct 31
Last Day to Withdraw from Courses or University	Nov 9
Thanksgiving Recess	Nov 21 thru 25
Last Class Day	Dec 14
Commencement	Dec 16
Final Examinations	Dec 17 thru 21
Semester Closes	Dec 22

**SPRING SEMESTER 1985**

Last Day for Full Tuition and Fee Refund	Jan 4
Early Graduate Registration	Jan 5
Central Registration	Jan 7, 8
Schedule Changes	Jan 9
Begin Late Registration Fee	Jan 10
First Class Day	Jan 10
Last Day to Submit Add or Pass-Fail Requests	Jan 11
King's Birthday Observance - No Classes	Jan 14
Last Day to Submit Audit Requests	Jan 16
Last Day to Apply or Reapply for Graduation	Jan 18
Last Day for Full Refund of Tuition and Fees (Except Insurance)	Jan 24
Last Day for Course Withdrawal Without Grade	Jan 24
Begin W Upon Course Withdrawal	Jan 25
Last Day for 50% Refund of Tuition and Fees (Except Insurance)	Feb 7
Last Day for Grade Appeal	Feb 7
Lincoln's Birthday Observance - No Classes	Feb 12
Mid-Term	Mar 5
Last Day for W Upon Course Withdrawal	Mar 12
Begin WP or WF Upon Course Withdrawal	Mar 13
Last Day to Withdraw from Courses or University	Mar 22
Spring Recess	Mar 23 thru 31
Last Class Day	May 3
Final Examinations	May 6 thru 10
Commencement	May 11
Semester Closes	May 11

**SUMMER TERM 1985****Intersession**

Central Registration	May 3, 20
First Class Day	May 20

Begin Late Registration Fee .....	May 21
Last Day to Submit Add, Pass-Fail or Audit Requests .....	May 22
Last Day for Full Refund of Tuition and Fees .....	May 23
Last Day for Course Withdrawal Without Grade .....	May 23
Begin W Upon Course Withdrawal .....	May 24
Memorial Day Observance - No Classes .....	May 27
Last Day to Withdraw from Courses or University .....	June 11
Last Class Day .....	June 13
Final Examinations .....	June 13
Session Closes .....	June 14
Last Day to Apply or Reapply for Graduation .....	June 25
Commencement .....	Aug 11

## SUMMER TERM 1985

### Five-Week Session

Last Day for Full Tuition and Fee Refund .....	June 14
Central Registration .....	June 17, 18
Begin Late Registration Fee .....	June 19
First Class Day .....	June 19
Last Day to Submit Add, Pass-Fail or Audit Requests .....	June 20
Last Day for Full Refund of Tuition and Fees (Except Insurance) .....	June 25
Last Day to Apply or Reapply for Graduation .....	June 25
Last Day for Course Withdrawal Without Grade .....	June 25
Begin W Upon Course Withdrawal .....	June 26
Last Day for 50% Refund of Tuition and Fees (Except Insurance) .....	July 2
Independence Day Observance - No Classes .....	July 4
Last Day to Withdraw from Courses or University .....	July 15
Last Day for Grade Appeal .....	July 17
Last Class Day .....	July 23
Final Examinations .....	July 24
Session Closes .....	July 25
Commencement .....	Aug 11

## SUMMER TERM 1985

### Eight-Week Session

Last Day for Full Tuition and Fee Refund .....	June 14
Central Registration .....	June 17, 18
Begin Late Registration Fee .....	June 19
First Class Day .....	June 19
Last Day to Submit Add, Pass-Fail or Audit Requests .....	June 20
Last Day for Full Refund of Tuition and Fees (Except Insurance) .....	June 25
Last Day to Apply or Reapply for Graduation .....	June 25
Last Day for Course Withdrawal Without Grade .....	June 25
Begin W Upon Course Withdrawal .....	June 26
Last Day for 50% Refund of Tuition and Fees (Except Insurance) .....	July 2
Independence Day Observance - No Classes .....	July 4
Mid-Term .....	July 16
Last Day for Grade Appeal .....	July 17

Last Day to Withdraw from Courses or University .....	July 22
Last Class Day .....	Aug 8
Commencement .....	Aug 11
Final Examinations .....	Aug 12, 13, 14
Session Closes .....	Aug 15

## TENTATIVE

### Fall Semester 1985

Last Day for Full Tuition and Fee Refund .....	Aug 23
Early Graduate Registration .....	Aug 24
Central Registration .....	Aug 26, 27
Schedule Changes .....	Aug 28
First Class Day .....	Aug 29
Labor Day Observance - No Classes .....	Sep 2
Last Day for Full Refund of Tuition and Fees (Except Insurance) .....	Sep 12
Last Day to Apply or Reapply for Graduation .....	Sep 12
Last Day for 50% Refund of Tuition and Fees (Except Insurance) .....	Sep 26
Fall Recess .....	Oct 4
Mid-Term .....	Oct 18
Last Day to Withdraw from Courses or University .....	Nov 8
Thanksgiving Recess .....	Nov 27 thru Dec 1
Last Class Day .....	Dec 13
Commencement .....	Dec 15
Final Examinations .....	Dec 16 thru 20
Semester Closes .....	Dec 21

### Spring Semester 1986

Last Day for Full Tuition and Fee Refund .....	Jan 3
Early Graduate Registration .....	Jan 4
Central Registration .....	Jan 6, 7
Schedule Changes .....	Jan 8
First Class Day .....	Jan 9
King's Birthday Observance - No Classes .....	Jan 13
Last Day for Full Refund of Tuition and Fees (Except Insurance) .....	Jan 23
Last Day to Apply or Reapply for Graduation .....	Jan 23
Last Day for 50% Refund of Tuition and Fees (Except Insurance) .....	Feb 6
Lincoln's Birthday Observance - No Classes .....	Feb 12
Mid-Term .....	Mar 5
Last Day to Withdraw from Courses or University .....	Mar 21
Spring Recess .....	Mar 22 thru 30
Last Class Day .....	May 2
Final Examinations .....	May 5 thru 9
Commencement .....	May 10
Semester Closes .....	May 10

### Interession 1986

Central Registration .....	May 2, 19
First Class Day .....	May 19
Last Day for Full Refund of Tuition and Fees .....	May 22



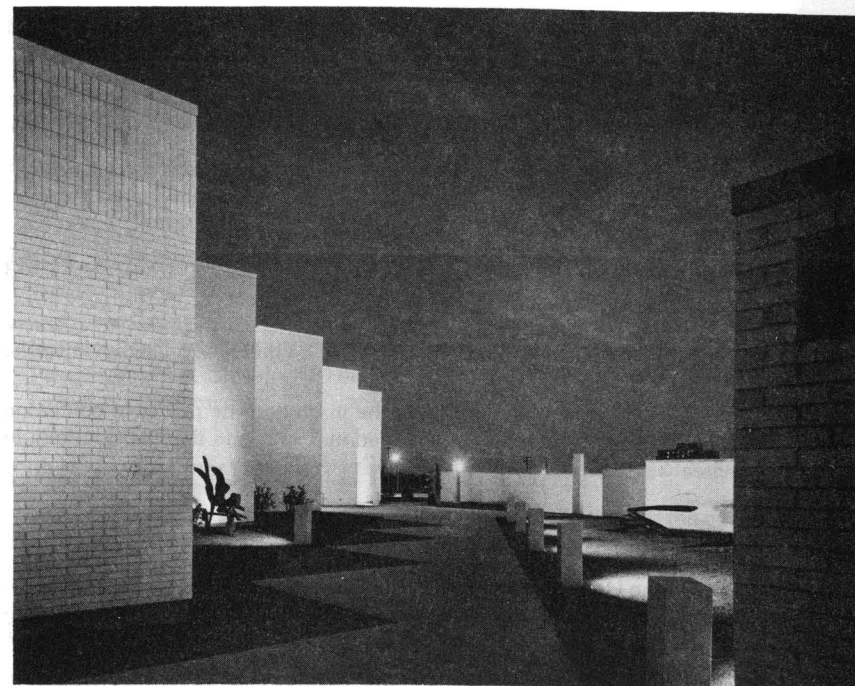
Memorial Day Observance - No Classes .....	May 26
Last Day to Withdraw from Courses or University .....	June 10
Last Class Day .....	June 12
Final Examinations .....	June 12
Session Closes .....	June 13
Commencement .....	Aug 10

### Eight Week Session 1986

Last Day for Full Tuition and Fee Refund .....	June 13
Central Registration .....	June 16, 17
First Class Day .....	June 18
Last Day for Full Refund of Tuition and Fees (Except Insurance) .....	June 24
Last Day to Apply or Reapply for Graduation .....	June 24
Last Day for 50% Refund of Tuition and Fees (Except Insurance) .....	July 1
Independence Day Observance - University Closed .....	July 4
Mid-Term .....	July 15
Last Day to Withdraw from Courses or University .....	July 21
Last Class Day .....	Aug 7
Commencement .....	Aug 10
Final Examinations .....	Aug 11, 12, 13
Session Closes .....	Aug 14

### Five Week Session 1986

Last Day for Full Tuition and Fee Refund .....	June 13
Central Registration .....	June 16, 17
First Class Day .....	June 18
Last Day for Full Refund of Tuition and Fees (Except Insurance) .....	June 24
Last Day to Apply or Reapply for Graduation .....	June 24
Last Day for 50% Refund of Tuition and Fees (Except Insurance) .....	July 1
Independence Day Observance - University Closed .....	July 4
Last Day to Withdraw from Courses or University .....	July 14
Last Class Day .....	July 22
Final Examinations .....	July 23
Session Closes .....	July 24
Commencement .....	Aug 10



Tarble Arts Center

## PURPOSE

Since the time of its founding Eastern Illinois University has developed a comprehensive and stimulating curriculum which offers an education in the liberal arts and sciences and in professional areas. The primary aim of the University's program is to provide excellent instruction and an educational environment which will produce broadly educated, responsible citizens who are prepared to serve and to lead in a free society.

## ACCREDITATION

The University has been accredited by the North Central Association of Colleges and Secondary Schools since 1915. It is also accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary teachers and school service personnel. It is a member of the American Association of Colleges for Teacher Education. The programs in music are accredited for the B. Mus. and M.A. by the National Association of Schools of Music. The B.S. degree in chemistry is accredited by the American Chemical Society. The B.S. degree in home economics is accredited by the American Home Economics Association. The B.S. and M.S. degrees in speech pathology and audiology are accredited by the American Speech and Hearing Association. The B.A. degree in journalism is accredited by the Council on Education in Journalism and Mass Communication. The B.S. degree in industrial technology is accredited by the National Association of Industrial Technology. The B.S. degree in Recreation Administration is accredited by the National Recreation and Park Association.

Eastern Illinois University's teacher education programs received recognition by the Illinois Office of Education in 1967. Programs appearing in this catalog are approved by the Illinois Office of Education.

## LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. Highway 16 (four lanes) connects Charleston with Mattoon. Airlines furnish flights daily to and from Chicago from Coles County Airport. The city has a population of 19,500.

## HISTORY

The General Assembly of Illinois, by an act approved May 22, 1895, established at Charleston, Illinois, the Eastern Illinois State Normal School. In response to its changing role in higher education, the institution became Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

In 1907 the General Assembly granted to the institution the power of conferring degrees. The first master's degrees were awarded in 1952, and the first Specialist in Education degree was awarded in 1966.

## THE CAMPUS

The grounds of the University cover an area of over 316 acres of landscaped, generally level land. In addition to the campus proper, the University also includes wooded tracts near Charleston, which are used for nature study and life science research.

The chief buildings on the campus and the units included in them are as follows:

**Applied Arts Center:** Home Economics and Technology.

**Buzzard House:** Counseling.

**Charles H. Coleman Hall:** Economics, English, Foreign Languages, History, Philosophy, Political Science, Sociology-Anthropology, Speech-Communication, and Management and Marketing.

**Charles P. Lantz Health, Physical Education and Recreation Building:** Health Education, Physical Education, Recreation, and Intercollegiate Athletics. Features include archery, pistol and rifle ranges, field house, gymnasium, and swimming pool.

**Clinical Services Building:** Speech Pathology and Audiology, Health Service, and Reading, Speech, and Hearing Clinics.

**Florence McAfee Gymnasium:** Physical Education, Intercollegiate Athletics, Registration.

**Francis G. Blair Hall:** Business Education, and Accountancy, Data Processing, and Finance.

**Life Science Building:** Botany and Zoology.

**Livingston C. Lord Administration Building (Old Main):** Administrative offices, Admissions, Affirmative Action, Foreign Student Advisement, Mathematics, Records, Student Personnel Services.

**Martin Luther King, Jr., University Union:** Arrangements Office, Student Activities and Organizations, and special features: ballrooms, bookstore, bowling alleys, dining facilities, lounges, conference rooms, snack shops, and student government offices.

**Mary J. Booth Library:** Main Library, Music Room, Self Study Materials Center, and Audio-Visual Center.

**Physical Science Building:** Chemistry, Geography-Geology, Physics, and Psychology.

**Quincy V. Doudna Fine Arts Center:** Art, Music and Theatre Arts.

**Robert G. Buzzard Building:** School of Education, Educational Psychology and Guidance, Elementary and Junior High School, School Service Personnel, Secondary Education and Foundation, Special Education, Student Teaching, Special Projects, portion of Home Economics, Journalism, *Eastern News*, and *Warbler*.

**Student Services Building:** Academic Assistance Center, Computer Services, Duplicating Services, Financial Aids, Housing, Placement, Residence Hall Food Services, Testing, Veterans' Services.

**Table Arts Center:** Exhibits, performances, outreach facilities.

**Telephone and Security Building:** Security staff and university telephone system.

**Dormitory Complexes** include the following buildings: Andrews Hall, Carman Hall, Douglas Hall, East Hall, Ford Hall, Lawson Hall, Lincoln Hall, McKinney Hall, Pemberton Hall, Stevenson Tower, Taylor Hall, Thomas Hall, Weller Hall, and University Apartments.

## ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of five state universities under the general jurisdiction of the Board of Governors of State Colleges and Universities, to whom the President is finally responsible for the operation and general welfare of the University.

The University is functionally organized into three areas each headed by a vice president: Academic Affairs, Administration and Finance, and Student Affairs.

Chief instructional units include the College of Arts and Sciences, the School of Business, the School of Education, the School of Fine Arts, the Graduate School, the School of Health, Physical Education and Recreation, the School of Home Economics, and the School of Technology. Each of these units is headed by a dean.

Faculty and student participation in university affairs is accomplished through a Faculty Senate, a Student Senate, and membership on a number of academic and administrative councils. These councils, most of which have both student and faculty members, consider and recommend policies, curricula, and procedures to the President.

## DIVISION OF THE YEAR

The university year consists of two semesters, an eight-week summer term for undergraduates and graduates, and a concurrent five-week summer term for graduates students.

## ALUMNI ORGANIZATIONS

Recognizing the contribution that a body of truly interested alumni can make to the development of an institution of higher learning, the University has encouraged the growth of various alumni organizations. Since all who have been students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

*The Eastern Alumni Association*, established in 1905, is composed of persons who have either received degrees from this institution or completed a minimum of one term's work here.

In 1947 the Alumni Association issued the first *Eastern Alumnus*, a quarterly magazine mailed to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$4 for one year, \$7 for two years, and \$10 for three years.



## THE EASTERN ILLINOIS UNIVERSITY FOUNDATION

In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes.

The objectives of the Foundation are to assist in developing and increasing the facilities of the University by encouraging gifts of money, property, works of art, historical papers and documents and other materials having educational, artistic, or historical value. Such gifts should be conveyed to the Foundation, with proper stipulation as to their use. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms for gifts and memorials.

Membership of the Foundation consists of 100 persons, including alumni and friends of the University. The Board of Directors of the Foundation consists of nine persons elected from the general membership.

# GENERAL INFORMATION

## DEFINITION OF A GRADUATE STUDENT

**Any student who holds a baccalaureate degree from a regionally accredited institution and registers for courses at EIU is classified as a graduate student.**

## DEGREES

The University offers on the fifth-year level the master's degrees: Master of Arts (M.A.); Master of Science (M.S.); Master of Business Administration (M.B.A.); and Master of Science in Education (M.S. in Ed.). The Specialist in Education (Ed.S.) degree is offered on the sixth-year level.

## OUTLINE OF PROCEDURES FOR EARNING A DEGREE

There are several essential administrative steps that students must accomplish through the Graduate Dean's Office and the major department to receive a graduate degree at Eastern Illinois University. They must:

1. Gain admission to Graduate School as a degree status graduate student. See Admission to Graduate Courses.
2. Obtain written approval of a study program from the faculty of the department in which they plan their major study. The "faculty" of a department is represented by an assigned advisor and a department chairperson. See Approval of the Study Plan.
3. Apply for graduation with sufficient lead time to allow the major department and the Graduate Dean's Office to review and collect all credits and other documents for certifying the degree. See Applying for Graduation.
4. Successfully complete all requirements for graduation. See Graduation Requirements. Students should consult with their advisors to assure that all papers, abstracts, exams and incomplete grades ('E') are finalized in time for graduation. Also see the appropriate sections on degrees (M.A., M.S., etc.).

Each of these steps is explained in more detail in the following pages. Note that the final responsibility for completing all requirements for graduation lies with the student. A student seeking help should consult his advisor, the chairperson of the major department, and the Graduate Dean.

## ENTRANCE EXAMINATIONS

Admission as a degree-status graduate student requires that scores from either the Graduate Record Examination (GRE) or Miller Analogies Test (MAT) be sent to the Graduate School Office (see Degree-Status, below). M.B.A. candidates should submit the GMAT. In addition, most departments specify which entrance exam the student should take in order to be admitted to the department. See Admission Requirements under each departmental heading.

## ADMISSION TO GRADUATE COURSES

Although students may be admitted to take graduate courses on a non-degree status, those who wish to complete a graduate degree at Eastern Illinois University must seek and attain admission to Graduate School (M.B.A. see page 38) as a degree status student before they complete the remaining sequence steps necessary for graduation. Degree status should be attained prior to completing 8 semester hours of graduate work. Individual graduate programs may have separate requirements that exceed those of the graduate school. Students are advised to contact the appropriate program advisors and to consult regulations pertaining to their specific degree program for that information. (M.B.A. see special regulations on page 38.)

Admission to graduate coursework via degree status or any alternative is granted only after official evidence of a standard baccalaureate degree from an accredited college is presented. Transcripts certifying the completion of a bachelor's degree should be sent directly from the Registrar's Office of the school conferring the degree to the Eastern Illinois University Graduate School Office. Transcripts should not be hand carried by the student. In addition, students seeking admission to graduate courses should acquire and complete an application (or re-application) form. Forms are available in the Graduate Dean's Office or from the instructors of Eastern Illinois University off-campus courses.

### Former EIU Students

Any student who has previously attended Eastern Illinois University as an undergraduate or graduate, degree or non-degree student, and who returns to the University after a lapse of one or more semesters (excluding summer term) should make application for **readmission** to the Records Office at least ten calendar days prior to the official registration day of the term in which he/she intends to enroll. An earlier closing date may be announced in the public press. Students not previously admitted to the Graduate School must also apply for admission to the Graduate School (or School of Business for the M.B.A.).

Students may be granted admission to courses under one of the following plans:

### Degree Status

Degree Status may be attained only after final approval of the appropriate academic unit. To attain degree status, a student must first fulfill one of the following sets of criteria. (Not applicable for the M.B.A. See page 38.)

1. Present an official undergraduate transcript<sup>1</sup> from a regionally accredited<sup>2</sup> U.S. college or university which certifies completion of the baccalaureate degree with a grade point average of at least 2.50 on 4.0 scale and valid documentation of an appropriate admissions test score (GRE or MAT).
2. Present an official undergraduate transcript<sup>1</sup> which certifies completion of the baccalaureate degree from a regionally accredited<sup>2</sup> U.S. college or university and valid documentation of an acceptable score on the appropriate test: GRE (1000) or MAT (50).

3. Present an official transcript<sup>1</sup> which certifies completion of the baccalaureate degree from a regionally accredited<sup>2</sup> U.S. college or university, take the GRE or MAT and complete 12 semester hours of graduate coursework at EIU as a non-degree student with no grade below "B".

### Non-Degree Status

A student not eligible for degree status who presents valid evidence of a bachelor's degree from an accredited<sup>2</sup> United States institution may be allowed by the Graduate Dean's Office to take graduate courses on a non-degree basis. The University assumes that non-degree students do not plan to declare a major or to seek a degree. However, should such students, at a later date, apply for a degree program, they must apply for and meet admission requirements for degree status as outlined above. In such a case, graduate work completed as a non-degree student will be evaluated by the major department and the Graduate Dean's Office with no assurance that any credit earned will be applied toward the degree. Admission to take graduate courses is not to be interpreted as permission to seek a degree. Non-degree students are not assigned to a graduate faculty advisor.

Students ineligible for degree status for any reason will automatically be assigned non-degree status. Students not wishing to remain in non-degree status, should inquire in the Graduate Dean's Office to determine the cause of their ineligibility for degree status.

### Foreign Students

Because of U.S. Immigration Office requirements, students from foreign nations must enter graduate work as degree status students. To gain admission to graduate coursework, students from foreign nations must meet all requirements for obtaining proper U.S. immigration clearance (I-20 form) in the Eastern Illinois University International Student Advisor's office and must present official evidence to the graduate school office which satisfies the following two criteria:

1. An official (raised seal) transcript from an internationally accredited university which certifies the areas for courses of study and the completion of a four-year baccalaureate degree, comparable to that awarded by a regionally accredited institution in the United States, with a 2.50 grade point average as determined by the Graduate Dean's Office and valid documentation of a score on the GRE or MAT (See page 38 for M.B.A. admission requirements).
2. A score of 550 or above on the Test of English as a Foreign Language (TOEFL) or citizenship in a nation whose official language is English and certification of proficiency in the English language by the student's academic department. (Students who have completed 24 semester hours of college credit at an accredited U.S. college or university may substitute valid documentation of that fact for this criterion.)

### Deadlines for International Students

A student's International Application for Admission and all support documents must be on file with the appropriate University office according to the following schedule, before an I-20 form will be issued:

by August 1 for Fall; by December 15 for Spring; by June 1 for Summer

<sup>1</sup>Former Eastern students do not need to request that Eastern transcripts be forwarded.

<sup>2</sup>Accredited is defined to include only regional accrediting agencies such as the North Central Association, etc.

Students with incomplete files according to the aforementioned deadline dates will have their files updated to the following semester or term. The deadlines have been established to allow sufficient visa processing time and will not be extended.

### Seniors at EIU

During the final semester of residence in undergraduate work, or the penultimate semester of residence if the final semester is to be spent in student teaching or internship, a senior may apply for permission to take graduate level courses numbered 4750 through 5499 for reserve graduate credit. This credit is subject to a maximum of nine semester hours and may not exceed the difference between that required to complete the undergraduate degree and the maximum enrollment allowed a graduate student in that term. Graduate credit will not be granted for any course which is used in any way for fulfilling the undergraduate requirements for a degree.

Qualified seniors at EIU may elect to enroll in courses numbered 5000 through 5499 for undergraduate credit. No undergraduate may enroll in courses numbered 5500 or above.

To be eligible to apply, a student must have a 2.75 grade point average and obtain permission from both the instructor of the course and the Graduate Dean, prior to enrollment. Application forms are available in the Graduate Dean's Office.

### APPROVAL OF THE STUDY PLAN – MASTERS DEGREE

Authority for approving a study plan rests primarily with the academic department offering the degree. After attaining degree status as a graduate student, the student in consultation with the advisor must petition the major department for approval of the study plan. Inadequate undergraduate preparation in the major field or deficiencies in an area of concentration as determined by the department, must be made up without credit toward the graduate degree.

To secure approval of a study plan, the student must:

1. Petition the major department for approval of a study plan which meets the following criteria:
  - a. The candidate's petition shall be made prior to completing 12 semester hours of graduate coursework applicable to the degree. Failure to secure full approval of the study plan prior to beginning the final 18 semester hours of a proposed program will result in a delay in processing the necessary documents pertaining to graduation and may delay the student's graduation plans.
  - b. The proposed program of study must meet both University and the major department's requirements (for University requirements, see Graduation Requirements; for departmental requirements, see advisor or department chairperson).

Credit in courses numbered 4750 through 4999 should be limited to 10 semester hours or less unless exceptions are authorized by the major department. In all cases, at least 17 semester hours (non-thesis option) or 15 semester hours (thesis option) of the coursework on the study plan must be numbered 5000 or higher.
- c. The following maximums apply for credit towards a degree: 5990—6 s.h.; 5950—6 s.h.; combination of 5990/5950/5997—9 s.h.; combination of 4997, 4998, 4999—6 s.h.

- d. Candidates for the M.S. in Ed. and for the M.A. and M.S. degrees with emphasis on teaching must hold a regular teacher's certificate. This requirement is waived for M.S. in Ed. candidates majoring in guidance and counseling who intend to pursue personnel work in higher education or in community counseling, for candidates majoring in educational administration and supervision or information services and technology if the candidate does not plan a career in public school administration, and for M.S. candidates majoring in Technology Education who do not plan to teach.
  - e. Candidates seeking the M.B.A. degree must submit a plan which is approved by the Graduate Coordinator for the School of Business and which fulfills the requirement of Phase II (see section on M.B.A.). Course deficiencies (Phase I) may not be included as part of the official study plan.
2. Final approval of the study plan is given by the Graduate Dean. Any subsequent changes in the study plan must also be first approved by the major department and then submitted for final approval to the Graduate Dean. (The major department is expected to approve only changes which are consistent with the total study plan and only for very good reason.)

### APPLYING FOR GRADUATION

Candidates for graduation must apply for graduation in the Records Office and must pay the graduation fee (\$20.00) at the Business Office Cashier's window.

### GRADUATION REQUIREMENTS

Departmental requirements for graduate degrees vary slightly depending upon the degree sought and the academic department offering the degree. Students should plan to spend sufficient time with their official advisors to ascertain the department's requirements for graduation.

The University requirements given below are minimum requirements which are common to all degrees offered by the University.

1. Eastern Illinois University courses. Credit received in Eastern Illinois University courses taught by Eastern Illinois University faculty, either on or off campus, may be counted as credit in residence. A minimum of 21 semester hours must be in residence credit.
2. Maintenance of a "B" (3.0 on 4.0 scale) grade average.
  - a. No more than nine semester hours may be below "B". Ten or more semester hours of grades below "B" disqualify a student as a degree candidate.
  - b. A student must attain a minimum grade point average of 3.0 on all courses taken for graduate credit at Eastern Illinois University and must attain a minimum grade point average of 3.0 on all courses included on the official study plan.
  - c. Grade point averages are computed on all courses numbered 4750 and above taken for graduate credit at Eastern Illinois University. Lower numbered courses taken for whatever reason are not included in the GPA calculation.
3. Certification by the appropriate department that the student has satisfactorily demonstrated a comprehensive knowledge of the area in which the degree is to be conferred. Such departmental certification must be filed in the Graduate School Office at least one week prior to the graduation date.
4. Certification that, as applicable, an acceptable paper, report or thesis and its abstract has been approved and deposited in the University Library. Such cer-

tification must be filed in the Graduate School Office on forms available from that office at least one week prior to the graduation date.

5. Application for graduation at the Records Office and payment of the graduation fee at the Cashier's window no later than **the tenth** calendar day following the first day of classes of the semester in which the candidate plans to graduate, or the fifth calendar day following the first day of classes of a summer term.

### The Summer Guest Student Policy

The Summer Guest Student is one who is not seeking a degree at Eastern Illinois University and is not a former Eastern student, but wishes to take undergraduate or graduate courses for credit in the summer. The Summer Guest Student is permitted to apply without official transcript(s) to the Office of Admissions (if undergraduate student) or the Graduate School (if graduate student), but is required to sign a Disclaimer Statement at the time of admission on campus. Each summer a student wishes to enroll as a Summer Guest Student, he/she must fill out the Summer Guest Student Application and sign the Disclaimer Statement. The completed form is to be returned to the Office of Admissions if applying as an undergraduate or to the Graduate School if applying as a graduate student.

## MISCELLANEOUS RULES PERTAINING TO GRADUATION

### TIME LIMIT

#### Master's Degree

A student must fulfill all requirements for the degree within a six consecutive year time period. All coursework listed on a student's approved study plan, including work for which transfer credit is given, certification of comprehensive knowledge, and completion of a thesis, if applicable, must fall within the six-year period. The earliest term in which a course listed on the approved study plan was taken marks the beginning of the six-year period.

Any course numbered 5000 or above taken prior to the beginning of the six-year period may be retaken for credit and included as part of the approved program, only if approved by the student's graduate committee and the Dean of the Graduate School prior to enrollment.

#### Specialist Degree

The final 32 semester hours of the approved program must be completed within a six-year period preceding the date of the awarding of the degree.

### CORRESPONDENCE COURSES

No credit is allowed for correspondence coursework.

### TRANSFER CREDIT

All transfer credit must carry the grade of "B" or better. No transfer credit taken prior to the receipt of a baccalaureate degree at another college may be counted toward a graduate degree at Eastern Illinois University. All transfer credit is subject to the time limit (above) and must be acceptable to the department for the program of study. Further it must qualify under the same rules that are applied to residence graduate credit. Credits to be transferred to the University must be certified for graduate credit by official transcripts sent directly to the Graduate School Office from the Registrar of the school at which it was earned.

- a. In all master's degree programs a minimum of 21 semester hours must be in residence credit.
- b. A minimum of 21 semester hours of the final 32 semester hours completed in the Ed.S. program must be in residence credit.

### LOAD

A graduate student may take no more than 16 semester hours during a semester or 10 semester hours during a summer term, including the intersession. This is exclusive of workshops or short courses held prior to or following either the summer term or a regular semester. Students with graduate assistantship appointments are required to carry loads which are specified in their contract.

For fee purposes, students enrolled in twelve semester hours or more during a semester or eight semester hours or more in summer are considered fulltime students. (Also, see load reference under Graduate Assistants.)

### SECOND MASTER'S DEGREE

A second master's degree may be earned provided the student applies for a second degree and completes 30 to 32 additional semester hours of graduate coursework in an approved study plan.

### AUDITING COURSES

Provisions for auditing courses may be made under certain circumstances. Fees for auditing are the same as those for students taking an equivalent amount of work for credit. Students enrolled for full-time academic work must include any courses they wish to audit as part of the maximum load permitted them; change of enrollment from "audit" to "credit" or from "credit" to "audit" may be made only during the six calendar days following the first day of classes and must have the approval of the instructor.

## THE GRADING SYSTEM

### CREDIT

The unit of measure is the semester hour. One semester hour of credit requires a minimum of three hours of course-related activity per week, per semester on the part of the average student. Graduate course descriptions state the academic credit assigned.

### GRADES

The grades given in courses are as follows:

Grade	Description	Grade Point Value	Grade	Description	Grade Point Value
A	Excellent	4	E	Incomplete	—
B	Good	3	W	Withdrew-passing	—
C	Fair	2	WF	Withdrew-failing	0
D	Poor	1	AU	Audit	—
F	Failure	0			
P	Pass	0			

The grade of E is given only when, because of illness or some other important reason, a student's normal progress in a course is delayed. Such a student must secure an instructor-approved plan which will allow completion of work no later than the end of

the next term in which he/she is in residence. If the plan is accomplished, the instructor submits a Removal of Incomplete Form indicating the appropriate grade. Records Office will cause the Incomplete to be changed to an F grade unless the instructor has submitted a time extension in writing. This requirement applies to both undergraduate and graduate courses with the exception that the time restriction does not apply to the formal papers or theses required for degrees beyond the baccalaureate. For thesis the grade of E will be recorded until the completed thesis is on deposit in the library. The completed thesis will be graded either P or F.

### GRADE POINT AVERAGE\*

The number of grade points for a grade in a given course is found by multiplying the grade-point value by the number of semester hours which may be earned in the course. The grade point average is computed by dividing the total number of grade points which a student has earned in all courses taken at Eastern Illinois University by the total number of semester hours represented by those courses (excluding courses in which a student has grades of E, W, P, AU). Graduate grade point averages are based on all courses numbered 4750 or higher which are taken for graduate credit at Eastern Illinois University.

### WITHDRAWAL FROM A COURSE

1. Within the first ten calendar days after the first class day of a semester, a student may withdraw from a course (or from the University) without a grade.
2. After the first ten calendar days following the first class day, but prior to the 63rd calendar day of the semester, a student may withdraw from a course (or from the University) with a grade of W.
3. A student who withdraws on or after the 63rd calendar day of a semester will receive a grade of W if he/she is passing the course or a grade of WF if he/she is failing the course. However, no student may initiate withdrawal from a course (or from the University) later than a period beginning 35 calendar days prior to the first regularly scheduled final semester examination. Summer session cutoff dates, which are reduced proportionately, are established and announced by the Dean, Student Academic Services.
4. If mitigating circumstances exist, the Dean, Student Academic Services, may advise the recording of a grade of W instead of a grade of WF.
5. The grade of WF carries the same grade-point evaluation as the Grade F.

### WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the end of a semester or summer term must obtain a withdrawal form from the Office of Student Personnel Services. Completion of this form will certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc., have been met. When completed, the form must be returned to the Office of Student Personnel Services. The student is not withdrawn until the form is completed and submitted. The student is then officially withdrawn from the University, and the Registration Office notifies appropriate departments and agencies of the withdrawal.

\*An example of these computations: If grades A, B, C, D, and F are earned in courses of 2, 3, 4, 1, and 3 semester hours respectively, the grade-point average is computed as follows: Grade A, 2 semester hours, yields a grade-point total of 8; grade B, 3 semester hours, yields a grade-point total of 9; grade C, 4 semester hours, yields a grade-point total of 8; Grade D, 1 semester hour, yields 1 grade point; grade F, 3 semester hours, yields no grade points; and the grand totals are 26 grade points for 13 semester hours. The G.P.A. is then  $26 \div 13 = 2.00$

Notice of intention to withdraw should be made in person although a letter addressed to the Office of Student Personnel Services, declaring intention to withdraw and postmarked within the stated period is deemed equivalent to the initial notice.

Policies covering the withdrawal of students from school because of a call to active military duty are administered by the Dean, Student Academic Services.

Rules governing grading policies upon withdrawal from the University are the same as for withdrawal from a course.

## RESIDENCY

For the purpose of this regulation an "adult" is considered to be a student eighteen years of age or over; a "minor" student is a student under eighteen years of age. The term "the state" means the State of Illinois. Except for those exceptions clearly indicated in this regulation, in all cases where records establish that the person does not meet the requirements for Resident status as defined in this regulation the Nonresident status shall be assigned.

1. **Residency Determination.** Evidence for determination of residence status of each applicant for admission to the university shall be submitted to the office responsible for admissions at the time of application for admission. A student may be reclassified at any time by the university upon the basis of additional or changed information. However, if the student is classified in error as a Resident student, the change in tuition shall be applicable beginning with the term following the reclassification; if the student is classified in error as a Nonresident, the change in tuition shall be applicable to the term in which the reclassification occurs, provided the student has filed a written request for a review in accordance with this regulation.
2. **Adult Student.** An adult, to be considered a Resident, must have been a bona fide resident of the State for a period of at least six consecutive months immediately preceding the beginning of any term for which he/she registers at the university, and must continue to maintain a bona fide residency in the State, except that an adult student whose parents (or one of them if only one parent is living or the parents are separated or divorced) have established and are maintaining a bona fide residence in the State and who resides with them (or the one residing in the State) or elsewhere in the State will be regarded as a Resident student.
3. **Minor Student.** The residence of a minor shall be considered to be, and to change with and follow:
  - a. That of the person's parents, if they are living together, or living parent, if one is dead; or
  - b. If the parents are separated or divorced, that of the parent to whom the custody of the person has been awarded by court decree or order, or, in the absence of a court decree or order, that of the father unless the person has continuously resided with the mother for a period of at least six consecutive months immediately preceding his/her registration at the university, in which latter event the person's residence shall be considered to be that of his/her mother; or
  - c. That of the adoptive parents, if the person has been legally adopted and, in the event the adoptive parents became divorced or separated, that of the adoptive parents whose residence would govern under the foregoing rules if that parent had been a natural parent; or
  - d. That of the legally appointed guardian of the person if the minor resides with such guardian; or

- e. That of a "natural" guardian, such as a grandparent, adult brother or adult sister, adult uncle or aunt, or other adult with whom the person has resided and has been supported by for a period of at least six consecutive months immediately preceding his/her registration at the university for any term if the person's parents are dead or have abandoned him/her and if no legal guardian of the person had been appointed and qualified.
4. **Parent or Guardian.** Except as provided in paragraph 10 of this Regulation, no parent or legal or natural guardian will be considered a resident of the State unless the parent or guardian (a) maintains a bona fide and permanent place of abode within the State, and (b) lives within the State, except when temporarily absent from the State, with no intention of changing his/her legal residence to some other State or country.
5. **Emancipated Minor.** If a minor has been emancipated, is completely self-supporting, and actually resides in the State, the minor shall be considered to be a Resident even though his/her parent or guardian may reside outside the State. An emancipated minor who is completely self-supporting shall be considered to "actually reside in the State of Illinois" if he/she has maintained a dwelling place within the State uninterrupted for a period of at least twelve consecutive months immediately preceding the beginning of any term for which he/she registers at the university. Marriage or active military service shall be regarded as effecting the emancipation of minors, whether male or female, for the purposes of this regulation. An emancipated minor whose parents (or one of them if only one parent is living or the parents are separated or divorced) have established and are maintaining a bona fide residence in the State and who resides with them (or the one residing in the State) or elsewhere in the State will be regarded as a Resident student.
6. **Marriage of Students.**
  - a. If a Resident student marries a Nonresident, then the Resident student shall continue to be classified as a Resident unless the student requests reclassification to a Nonresident status.
  - b. If a Nonresident student marries a Resident, then the Nonresident student shall continue to be classified as a Nonresident unless the student executes a declaration of residency, in such form as may be prescribed by the office responsible for admissions<sup>1</sup>, and requests reclassification to Resident status.
7. **Persons without United States Citizenship.** A person who is not a citizen of the United States of America, to be considered a Resident must have permanent resident status or must hold "refugee-parolee" or "conditional entrant" status with the United States Immigration and Naturalization Service and must also meet and comply with all of the other applicable requirements of this regulation to establish Resident status.
8. **Armed Forces Personnel.** A person who is actively serving in one of the Armed Forces of the United States and who is stationed and present in the State in connection with that service and submits evidence of such service and station, as well as such person's spouse and dependent children shall receive a waiver of the Nonresident portion of tuition as long as such person remains stationed and present in Illinois and the spouse or dependent children of such person also live in the State. If such a person is transferred to a post outside the Continental United States, but such person or the spouse and/or dependents of such person remain(s) registered at the university then such waiver shall continue until such

<sup>1</sup>The Dean, Student Academic Services, is responsible for residency determination at Eastern Illinois University.

time as the person in service is stationed in another State within the Continental United States.

9. **Minor Children of Parents Transferred Outside U.S.** The minor children of persons who have resided in the State for at least twelve consecutive months immediately prior to a transfer by their employers to some location outside the United States shall be considered Residents. However, this shall apply only when the minor children of such parents enroll in the university within five years from the time their parents are transferred by their employer to some location outside the United States.
10. **Staff Members of the University, Allied Agencies, and Faculties of State-Supported Institutions in Illinois.** Staff members of the university and of allied agencies, and faculties of state-supported institutions of higher education in Illinois, holding appointment of at least one-quarter time, and their spouses and dependent children, shall be treated as Residents.
11. **Teachers in Public and Private Illinois Schools.** Teachers in the private and public elementary and secondary schools shall, if subject to the payment of tuition, be assessed at the Resident rate during the term in which the staff member or teacher hold such an appointment at least one-quarter time. This privilege also extends to the summer session or off-term vacation immediately following the term for which such appointment was effective.
12. **Definition of Terminology.** To the extent that the terms "bona fide residence," "independent," and "dependent," and "emancipation," are not defined in this regulation, definitions shall be determined by according due consideration to all of the facts pertinent and material to the question and to the applicable laws and court decisions of the State of Illinois.  

Voter registration, filing of tax returns, proper license and registration for the driving or ownership of a vehicle, and other such transactions may verify intent of residence in a state. Neither length of university attendance nor continued presence in the university community during vacation period shall be construed to be proof of Illinois residence.

The term "staff member" as used in this regulation shall mean a person appointed to an established position for specific amount of time required, under an appointment requiring service for not less than three-fourths of the term. The term "staff member" as defined herein shall not apply to persons employed on an hourly basis in either an academic or nonacademic capacity, nor to persons on leave without pay. Persons appointed to established Civil Service positions, whose rate of pay is determined by negotiation or prevailing rates, shall not be considered as being paid on an hourly basis.
13. **Procedure for Review of Residency Status.** A student who takes exception to the residency status assigned and/or tuition assessed shall pay the tuition assessed but may file a claim in writing to the Director of Admissions and Records<sup>1</sup> for a reconsideration of residency status and/or an adjustment of the tuition assessed. The written claim must be filed within thirty calendar days from the date of assessment of tuition or the date designed in the official university calendar as that upon which instruction begins for the academic period for which the tuition is

<sup>1</sup>The Dean, Student Academic Services, is responsible for residency determination at Eastern Illinois University.

payable, whichever is later, or the student loses all rights to a change of status and/or adjustment of the tuition assessed for the term in question. If the student is dissatisfied with the ruling in response to the written claim made within said period, the student may appeal the ruling by filing a written appeal with the office responsible for admissions<sup>1</sup> within the twenty days of receipt of notice of ruling. Such written appeal shall be forwarded by the office responsible for admissions<sup>1</sup> to Board legal counsel, who shall consider all evidence submitted in connection with the case and render a decision which shall be final.

## SEMESTER TUITION AND FEES

All fees are subject to change by action of the Board of Governors of State Colleges and Universities. Fees listed below must be paid on or before registration day of each term. Programs and Services Fees are not waived for students holding graduate assistantships.

**Graduate:** A post-baccalaureate student will pay the following tuition and fees (regardless of the level of the courses in which he/she enrolls).

Fee	Illinois Resident		Non-Resident	
	Full-time	Part-time per Sem. Hr.	Full-time	Part-time per Sem. Hr.
Tuitions	\$495.00	\$41.25	\$1485.00	\$123.75
*Programs & Services	175.00	11.20	175.00	11.20
Total	\$670.00	\$52.45	\$1660.00	\$134.95

## SUMMER TERM TUITION AND FEES:

**Full-time:** 8 or more Semester Hours

**Part-time:** Less than 8 Semester Hours

Fee	Illinois Resident		Non-Resident	
	Full-time	Part-time per Sem. Hr.	Full-time	Part-time per Sem. Hr.
Tuition	\$330.00	\$41.25	\$ 990.00	\$123.75
*Programs & Services	103.15	11.20	103.15	11.20
Total	\$433.15	\$52.45	\$1093.15	\$134.95

<sup>1</sup>The Dean, Student Academic Services, is responsible for residency determination at Eastern Illinois University.



**\*PROGRAMS AND SERVICES FEES:**

Fee	Semester		Summer	
	Full-time	Part-time	Full-time	Part-time
Activity Fee	\$33.25	\$ 2.75	\$19.95	\$ 2.75
Student Legal Service	2.00	—	1.20	—
Bond Revenue Fee	55.25	4.60	34.00	4.60
Textbook Rental Fee	33.00	2.05	19.80	2.50
Health & Accident Insur.	27.50	—	13.75	—
Grants-in-Aid Fee	18.50	1.55	11.10	1.55
Socio-Economically Dis- advantaged Student Fee	3.00	.25	1.85	.25
Pharmacy Fee	2.50	—	1.50	—
<b>TOTAL</b>	<b>\$175.00</b>	<b>\$11.20</b>	<b>\$103.15</b>	<b>\$11.20</b>

**NOTE:** Part-time students are not eligible for:

Health and Accident Insurance  
Pharmacy  
Student Legal Service

**CONTINUING EDUCATION**

Tuition for off-campus courses is charged at a higher rate than for on-campus courses. Additional charges for textbook rental and delivery costs may be assessed. The same charges apply to students who audit courses. Consult with the Office of Continuing Education for total charges.

**MISCELLANEOUS FEES AND CHARGES**

**Late Enrollment Fee.** An extra fee of \$10 is charged to a student who enrolls after the enrollment dates shown in the catalog. This fee is non-refundable.

**Student Identification Card.** Student I.D. cards are issued to new students their first term of enrollment upon presentation of the fee card indicating payment of registration fees. Paid fee card must be presented whenever I.D. card is validated or re-validated. A fee of \$2 is charged for a colored Polaroid student photo I.D. Full-time students' I.D. cards are validated at no charge for all subsequent semesters of attendance upon presentation of the paid fee card for each semester of enrollment. A lost I.D. card should be reported immediately to the I.D. office, Student Personnel Services, and application made for a new card. The cost for a replacement card is \$2.

**Penalty for Returned Checks.** A \$7.50 fine will be charged on all checks returned to the University for non-payment for any reason.

**Graduation Fee.** Candidates for graduation must make application for graduation at the Records Office and pay the non-refundable graduation fee at the Business Office. The fee of \$20 for graduate degree candidates includes the cost of cap and gown rental. The last day for applying for graduation is listed in the calendar at the front of the catalog.

**Transcript Fee.** A fee of \$2 will be charged for each transcript issued. Transcripts will be issued only for students whose university records are clear.

**General Library Service Fee.** All library materials must be returned and records cleared by the end of each term. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations. Students with uncleared

records for lost or unreturned books from the previous term cannot charge out library materials.

**Textbook Rental Fee.** A fee of \$2 per book is charged if the student's record in the Textbook Rental Service is not clear by 4:30 p.m. following the last day of the term. The cost of a damaged or lost book is also charged. Damage to a book includes underscoring, high-lighting, annotating, adding other marginalia, etc.

**Chemistry Breakage Ticket.** A deposit of \$5 is required for a breakage ticket in all laboratory courses in chemistry. Refund is made of the amount not used for actual breakage after the locker is checked out.

**Lock Purchases.** Padlocks for lockers used in physical education must be purchased at the Martin Luther King, Jr., University Union Bookstore.

**Charges for Materials.** Fees are paid for materials used in certain courses.

**OFFICIAL RECEIPTS**

Official receipts for fees must be preserved by the student during the term involved. A fee of \$1 will be charged for any duplicate official receipt obtained from the cashier.

**REFUNDS**

Requests for refunds of mandatory fees other than those listed below must be submitted in writing to the Dean, Student Academic Services, for consideration. Appeals of denials of such requests may be made to the Vice President for Student Affairs, but no later than sixty calendar days following the close of the session for which the refund would have been applicable. The term "refund," as used in this regulation, may mean the cancellation of an unpaid obligation as well as an actual refund of amounts previously paid.

**WITHDRAWAL (FALL AND SPRING SEMESTERS)**

**Regular.** If a student withdraws from the University during a term by completing the procedure described in Section V of the General Catalog and IF the initiation and completion of the withdrawal are made through the Office of Student Personnel Services in accordance with dates set forth in the University Calendar, all fees (except insurance) will be refunded.

**Fifty Percent Refund.** If a student officially withdraws in accordance with established University procedures by the date set forth in the University Calendar, the student will receive a refund of one-half of all fees paid (except insurance).

**WITHDRAWAL (SUMMER AND OTHER SPECIAL TERMS)**

**Regular.** During summer and any other special term, the last day to withdraw officially from the University and receive a refund of all fees (except insurance) is the same as the last day to withdraw from a course without receiving a grade. (See calendar at front of catalog.)

**Fifty Percent Refund (Summer – 8 and 5 Week Terms Only).** If a student officially withdraws in accordance with established University procedures by the date set forth in the University Calendar, the student will receive a refund of one-half of all fees paid (except insurance).

**PRE-ENROLLMENT**

**Cancellation.** If a student pre-enrolls and pays the fees prior to the regular enrollment date for the term but decides not to attend the University, all fees will be refunded if notice is given in writing to the Registration Office before the regular

enrollment date for the term. If such written notice is not given before the regular enrollment date but is given by the last day to withdraw without a grade, all fees (except insurance) will be refunded.

**Reduction in Load.** Upon written request, a student who initially pays full registration and then reduces his/her load to part-time by the last day to withdraw without a grade will be refunded the difference (except insurance, where applicable). A student receiving such a refund will not be eligible for activities and benefits covered by the refunded fees.

## STATE CERTIFICATION

**Administration, Supervision, Guidance and Counseling Certification:** Graduates of an approved program in Administration and Supervision or Guidance and Counseling should apply for certification in the Office of the Chairperson of the Department. After attaching his/her endorsement, the department chairperson will forward the application to the Office of the Dean, School of Education.

## PLACEMENT

Registration or re-registration with the Placement Office is recommended prior to graduation. The Placement Office seeks to help graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information needed by them in considering applicants. It also maintains a follow-up service, including a program of visits and reports from employers and persons placed. Minimal service fees are charged current graduates who elect to register for placement.

Graduate students may register for placement if they have attended Eastern Illinois University for one term and have earned ten semester hours of graduate credit towards a master's degree. The fee for placement registration is \$1.00. Alumni whose institutional records are clear may register by bringing their credentials up-to-date and paying a fee of \$5. The placement registration fee for graduates initiating registration more than one year after graduation is \$25.

## SCHOLARSHIPS

Military scholarships are valid for graduate study, and any unused portion of a Teacher Education Scholarship may be applied to graduate study.

### ROTC – SCHOLARSHIPS

Military Science training has been offered at Eastern Illinois University since 1980. The program is voluntary, leading to a commission as an officer in the United States Army, Army Reserve or Army National Guard upon completion of a two-year program. This program is specifically designed to meet the needs of graduate students as well as other students who have at least four semesters of college study remaining. Illinois State and Federal ROTC Scholarships are available to qualified students. For information, contact the Professor of Military Science, Eastern Illinois University.

## FINANCIAL AID

National Direct Student Loans and Work Study jobs are available to those students who qualify on the basis of financial need. For information contact the Director of Financial Aids.

For information concerning the Guaranteed Loan Program, contact your local lending institution.

## GRADUATE ASSISTANTSHIPS

Graduate assistantships are available in the major field departments and certain administrative offices. The assistantships carry stipends varying with work load and course load, and appointments are for the academic year or summer term. To be eligible the applicant must have earned a cumulative 2.75 undergraduate grade point average\* and been admitted to Graduate School. Graduate students having completed at least ten semester hours of graduate work at Eastern Illinois University with a grade point average of 3.5 or better may be considered for positions as graduate assistants, although their undergraduate grade point averages may be less than 2.75.

Tuition including the out-of-state tuition, if applicable, is waived for the holder of an assistantship for the semester or academic year for which the contract is offered. This does not include off-campus enrollment during the period unless it is a part of the normal load and is approved, in advance, by the Dean of the Graduate School. Programs and Services Fees are not waived.

Applications for the assistantships should be submitted by February 15 of the year of appointment. Further information may be obtained by writing directly to the major department.

\*This is the cumulative GPA from the degree granting institution and only that GPA.

## SUMMER TUITION WAIVERS

A limited number of summer tuition waivers are available for graduate students who have held a regular on-campus assistantship contract for at least four months immediately preceding a summer term or who have signed a graduate assistant contract for the following fall term. Further information is available in the Graduate School Office.

## LIVING ACCOMMODATIONS

### RESIDENCE HALLS

University Residence Halls and Food Services are designed to provide for the student's education outside of the classroom. The basic philosophy is the development of the total student. Rooms are primarily for double occupancy although a few single and triple rooms are available, as are the four- and six-man suites in Stevenson Tower. Residence Hall accommodations are as follows:

Andrews	480	McKinney	150
Carman North	384	Pemberton	201
Carman South	432	Stevenson	360
Douglas	194	Taylor North	295
East	50	Taylor South	297
Ford	150	Thomas	428
Lawson	480	Weller	150
Lincoln	194		

### MARRIED HOUSING

The 154 University Apartments consist of 100 one-bedroom and 54 efficiency apartments. Utilities, including telephone, are furnished by the University. The apartments are designed to provide inexpensive living facilities for married students.

1983-84 rates are as follows: \$164 per month for a one and one-half room furnished apartment; \$179 per month for a two-room furnished apartment; and \$184 per month for a two-room partially furnished apartment. These rates include \$20.25

per month for the Auxiliary Enterprise Subsidy. Additional information may be requested from the Student Housing Office.

All assignments are made on the basis of date of application for married housing according to the eligibility requirements listed below. The \$25 deposit must accompany the application form.

The eligibility requirements are:

1. Applications from student families are considered first. Student families include married couples, where at least one member of the family is a student at Eastern Illinois University, and single-parent families. Applications from single parents will be considered only if the child or children will be living full-time in the University Apartments.
2. To be eligible to live in the University Apartments, an applicant must be enrolled in at least 5 semester hours. If a resident drops below the 5 semester hours, the resident will be asked to move.
3. Applicants must prove their eligibility for a University Apartment assignment by providing the Housing Office with a certified courthouse copy of their marriage license. A minister's copy or a Xerox copy without the appropriate seal will not be acceptable. In the case of single-parents, a certified copy of the child's (or children's) birth certificate(s) will be required. The above mentioned information is required prior to assignment.
4. When all eligible applicants who are student families have been assigned, consideration will be given to single graduate assistants, single graduate students, faculty, and civil service personnel. (In a priority order as listed.)

## GENERAL SERVICES

### COUNSELING

The Counseling Center is staffed by professional counselors and counseling psychologists who assist students with adjustment problems which may interfere with their deriving maximum benefit from their university experiences. Psychological services related to educational development, vocational choice, and personal and social adjustment are available without cost to all students and the spouses of students.

### EMPLOYMENT

The Director of Financial Aids receives applications for part-time employment and assists students in finding work at the University and in the community. Student employment is contingent upon maintenance of satisfactory academic standing while enrolled as a full-time student.

### INSURANCE

By action of the Board of Governors, each full-time resident student and all graduate assistants under contract to the University are assessed a fee for group health and accident insurance administered by the University to supplement services performed by the University Health Service. Students who register for nine, ten, or eleven hours may purchase the insurance coverage during the first ten class days of each semester providing they meet the other eligibility requirements. Insured students are eligible to purchase identical coverage for their dependents.

The insurance is available for all three terms of the calendar year. Insured students attending spring semester who wish summer coverage and do not plan to enroll summer term, or plan to enroll only part-time, must apply for this insurance before the close of the spring semester.

An insurance brochure describing details of the coverage is available in the Office of Financial Aids. Basically, the group policy provides for a maximum of \$10,000 for hospital, surgical, and major medical expenses incurred within fifty-two weeks of the date of first medical treatment of the injury or sickness as provided for under the provisions of the contract. Benefits payable for a mental or nervous condition shall not exceed \$5,000.

Prior to the tenth class day of the term, students and/or parents (for students under 18), who can produce evidence of equal or better coverage, may make application for a refund of the insurance fee by completing a form available in the Office of Financial Aids.

Information concerning the insurance may be obtained in the Office of Financial Aids.

## MEDICAL

The University Health Service is located in the Clinical Services Building.

Outpatient medical services are available Monday - Friday, 7:30 a.m. to 4:00 p.m. A nurse is also available until 11:00 p.m. daily during the week and from 10:00 a.m. until 5:00 p.m. on Saturdays. During these hours a physician is on call for emergencies. The Charleston Ambulance Service can be contacted in an emergency for transportation of severe injuries or illnesses. Faculty and staff may be treated at the University Health Service only for emergencies which happen during working hours.

Services provided by the Health Services are covered by student activity and pharmacy fees. For further information concerning the Health Service, refer to the University Health Service brochure and the insurance brochure provided by the Financial Aids Office.

## LIBRARY SERVICES

**Booth Library is the general library of the University.** It contains a book collection of approximately 500,000 catalogued volumes and over 1,000,000 pieces of microform, as well as government documents, audio-visual materials, microtexts, maps, music scores, periodicals, pictures and pamphlets chosen to support the educational effort of the University. The library follows an open stack policy for both its general book and periodical collections. The general book collection is arranged on open shelves in two stack levels. All forms of a periodical (bound, unbound and microfilm) are shelved by call number in the Periodicals Public Services area on the upper level.

**Circulation Services, the Public Card Catalog and Reference Services** are located in the central area of the main level. Reference librarians are available to assist users in their search for information and to advise on research sources and techniques. Special facilities such as the new book alcove, the microtext collection and readers, conference rooms, faculty study rooms, lounges, copying services and administrative offices are also available on this level.

The library serves as a depository for selected publications of the United States Government and for maps issued by the U.S. Army Map Services. Illinois State and United Nations publications are included in the Documents Collection. The Documents Collection and the reserve materials are serviced at the Reserve/ Documents Services Desk in the North Lobby on the main level. A collection of juvenile books and elementary/secondary school textbooks are available adjacent to the North Lobby. The Read and Relax Room, housing the latest bestsellers and popular paperback books, is equipped with a quadraphonic sound system for recreational listening.

**The Self-Study Materials Center (SMC)**, a public service unit located on the main level, north building, offers a variety of services. Non-print media such as sound recordings, video tapes, filmstrips, etc., with viewing and listening facilities are available to faculty and students. The SMC has a number of Computer Assisted Instruction (CAI) terminals, i.e., PLATO and MICC. The microform collection is located in this area along with appropriate readers and printers.

**The Audio-Visual Center**, located on the lower level, north building, provides instructional resources and accompanying services to the teaching faculty. Instructional resources including films, filmstrips, tapes and disc recordings, video programs and a limited number of programmed audio and visual materials are available from the film library and rental sources. In addition, preview services are offered to those who have need for them. Requests for services of the Audio-Visual Center should be submitted as early as possible, particularly where materials for class use need to be rented. Usually three weeks is necessary to get materials from outside sources to campus.

**The Media Production Laboratory**, Room L-71, lower level, is available from 8:00 a.m. to 4:30 p.m., Monday through Friday, to assist students and faculty in designing and producing their own slides, transparencies, posters, audio and video tapes, and other instructional materials. Professional personnel are available to assist the teaching faculty in the design of the instruction, and for the production of visual materials for classroom use.

**The Foreign Language Lab** and its collection is located in Coleman Hall, Room 104. Materials available in the Lab include audio cassettes, video cassettes, slide/cassette modules and films. Resources are available in English, French, German and Spanish. The Foreign Language Lab is open Monday through Thursday, 8:00 a.m. to 4:00 p.m. and from 7:00 p.m. to 8:00 p.m.; Friday, 8:00 a.m. to 12 noon.

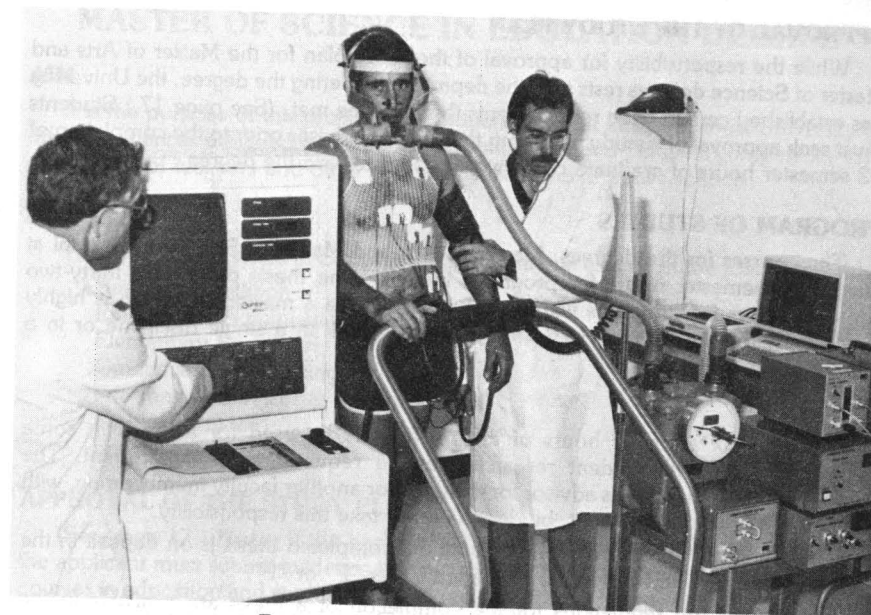
### BOOK RENTALS AND SALES

Rented textbooks must be returned in satisfactory condition by 4:30 p.m. of the next working day following the last day of a term. Regular working hours are 8:00 a.m. - 4:30 p.m., Monday through Friday. Damage other than that of ordinary wear must be paid for by the student. A fine of \$1 per book is imposed for each book not returned by the deadline stated above. Books which are not returned must be paid for at full replacement cost, regardless of their condition.

Students wishing to purchase their books may do so during the established sales period each semester. Dates for the book sales period may be found each semester in the Official Notices of the Daily Eastern News, or by inquiring at the Textbook Rental Service.

### STUDY ABROAD

The following departments offer students the opportunity to earn graduate credit through course 5997: English, History, Political Science, Psychology and Speech Communication. Special permission of the department is required. A maximum of nine semester hours may be counted toward the degree in any combination of 5950, 5990 and 5997.



Exercise Tolerance Test in Human Performance Laboratory

## DEGREE REQUIREMENTS

### MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

#### AIM

It is the purpose of these programs to provide through a pre-planned and coherent program of study an introduction to scholarly activities and research in a particular discipline.

#### FIELDS

The following majors have been authorized in the Master of Arts and Master of Science Degrees:

#### Master of Arts

- Art
- Economics
- English
- Gerontology
- History
- Historical Administration
- Mathematics
- Mathematics Education
- Music
- Political Science
- Psychology
- Related Arts
- Sociology
- Speech-Communication

#### Master of Science

- Botany
- Chemistry
- Environmental Biology
- Home Economics
- Dietetics Option
- Physical Education
- Speech Pathology
- Technology
- Technology Education
- Zoology

### APPROVAL OF THE STUDY PLAN

While the responsibility for approval of the study plan for the Master of Arts and Master of Science degrees rests with the department offering the degree, the University has established certain basic requirements that must be met. (See page 17.) Students must seek approval of a study plan from their official advisor prior to the completion of 12 semester hours of graduate credit which count toward the degree.

### PROGRAM OF STUDIES

The courses for the degrees, Master of Arts and Master of Science must total at least thirty semester hours for programs including the thesis or at least thirty-two semester hours for programs without the thesis. Since a master's program is highly specialized, the candidate is expected to pursue work in a single discipline or in a closely related field.

#### Thesis

Three to six semester hours of the major may be used for a thesis in some departments, or independent research may be required by a department. The student's advisor may act as advisor for the thesis or another faculty member may, with the consent of the department, be designated to take this responsibility.

The grade of "E" will be recorded until the completed thesis is on deposit in the library. The completed thesis will be graded either "P" or "F".

Instructions and regulations for the completion of a thesis are available in the Graduate Dean's Office.

#### Certification

Certification by the appropriate department that the student has satisfactorily demonstrated a comprehensive knowledge of the area in which the degree is to be conferred is required. Such certification must be filed in the Graduate School office at least one week prior to the final day of the term in which graduation is anticipated.

#### Language Requirement

The various departments offering the degrees have the option of requiring a foreign language. Students are encouraged to consult their major department concerning this requirement.

## MASTER OF SCIENCE IN EDUCATION DEGREE

### AIM

It is the purpose of this program of graduate study at Eastern Illinois University to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in public schools.

### FIELDS

The Master of Science in Education degree may be earned in the following fields:

Business Education  
Educational Administration and Supervision  
Elementary Education  
Guidance & Counseling  
Information Services & Technology  
Physical Science  
Special Education

### APPROVAL OF THE STUDY PLAN

(See page 17.) **Note:** If the bachelor's degree was earned at another institution, the applicant must submit evidence that he/she has had substantial equivalents of the courses in education and student teaching required for the degree B.S. in Ed. (or B.A. or B.S. with teacher certification) at Eastern Illinois University. Usually, one who holds a regular teacher's certificate valid in Illinois can meet this requirement. Deficiencies must be made up through additional undergraduate courses. The requirement is waived for M.S. in Ed. candidates who major in guidance and counseling with an emphasis in personnel work in higher education or in community counseling, for candidates who major in educational administration and supervision or instructional media if the candidate does not plan a career in public school administration, and for M.S. candidates who major in Technology Education if they do not plan to teach.

### PROGRAM OF STUDIES

The courses for the degree Master of Science in Education must total at least thirty semester hours for programs with a thesis and at least thirty-two semester hours for programs without a thesis. Credit toward a graduate degree in courses numbered 4750 through 4999 should be limited to 10 semester hours or less unless exceptions are authorized by the major department. In all cases, at least 17 semester hours (non-thesis option) or 15 semester hours (thesis option) of the coursework on the study plan must be numbered 5000 or higher.

It is assumed that the personal and professional competence sought by the candidate has at least two contributing factors: basic education theory and specialized professional knowledge and experiences; the plan, therefore, requires that the student's courses be identified with two groups defined as follows:

#### Basic Education Component

It is the purpose of the courses in this group to present aspects of fundamental educational theory. A minimum of eight semester hours must be chosen from the following:

<i>Educational Foundations 5500.</i>	<i>Curriculum Development (3 s.h.)</i>
<i>Educational Foundations 5510.</i>	<i>Social Foundations of Education (3 s.h.)</i>
<i>Educational Psychology 5520.</i>	<i>Understanding the Individual (3 s.h.)</i>
<i>Educational Foundations 5530.</i>	<i>Philosophy of Education (2 s.h.)</i>
<i>Educational Foundations 5540.</i>	<i>History of Educational Thought (2 s.h.)</i>

A student may petition for a proficiency examination in any of these courses; successful completion of the examination permits the substitution of elective courses of equivalent credit in the program of studies.

### Discipline Component

The courses of this group are intended to constitute an area of specialization. They may be taken in a single department or in more than one department; the unifying principle is their significance to the teaching field or the specialized professional work of the candidate. The unity displayed in the selection of courses of this group is primary consideration in the process of approving the study plan. A minimum of sixteen semester hours must be selected in the discipline component.

### Thesis

Although the preparation of a formal paper or thesis is not required of candidates for the degree, Master of Science in Education, the student may elect to submit one. Candidates electing to prepare a thesis may register, and receive credit toward graduation with the credit included as part of the discipline component. If the student elects to submit a thesis, the minimum credit required for graduation is 30 semester hours.

The student's advisor may act as advisor for the thesis or another faculty member may, with the consent of the Dean of the Graduate School, be designated to take this responsibility. The thesis must be read by at least two faculty members other than the advisor before it is given final approval. Candidates who contemplate graduate study beyond the master's degree are urged to write a thesis. Instructions and regulations for the completion of a thesis are available in the Graduate Dean's Office.

### Certification

Certification by the appropriate department that the student has satisfactorily demonstrated a comprehensive knowledge of the area in which the degree is to be conferred is required. Such certification must be filed in the Graduate School office at least one week prior to the final day of the term in which graduation is anticipated.

## MASTER OF BUSINESS ADMINISTRATION DEGREE

### AIM

The Master of Business Administration degree is designed to develop the fundamental body of knowledge and analytical tools common to all management positions through advanced study in management, marketing, accounting, information systems, behavioral sciences, economics, and quantitative approaches to decision making. In addition, both faculty and students are presented with the opportunity to conduct and utilize research in the solution of business problems.

### PROGRAM OF STUDIES

Students with business undergraduate degrees normally have a satisfactory command of the fundamentals for entry into graduate study and may be prepared to enroll immediately in Phase II (graduate level) courses. Students who do not have undergraduate degrees in business are expected to make up deficiencies by completing Phase I (undergraduate level) courses. Phase I courses must be substantially completed before the student enrolls in Phase II courses. The M.B.A. degree is often pursued by students preparing for a future in management but who did not major in the field of business. Non-business majors normally need two years in which to complete the M.B.A. degree; business majors can usually complete all degree requirements in one year.

### PHASE I

The student must complete, or have completed with a grade of C or better, undergraduate courses the content of which is substantially equivalent to the following at Eastern Illinois University:

	S.H.
Business Administration 5010, Essentials of Accounting . . . . .	3
Data Processing 2175, Computer-Based Systems & Business Applications . . . . .	3
Economics 2801, 2802, Principles of Economics I and II . . . . .	6
Finance 3710, Business Financial Management . . . . .	3
Management 2460, Business Law I . . . . .	3
Management 2810, Business Statistics I . . . . .	3
Management 3010, Management and Organizational Behavior . . . . .	3
Marketing 3470, Principles of Marketing . . . . .	3
Mathematics 2110 <sup>1</sup> , Mathematical Analysis . . . . .	3
Mathematics 2120 <sup>1</sup> , Finite Mathematics . . . . .	3
Total . . . . .	33

<sup>1</sup>Student may elect Business Administration 5005, Quantitative Analysis, in lieu of Mathematics 2110 and 2120.



## SPECIALIST IN EDUCATION DEGREE

### AIM

It is the purpose of this program to provide more advanced and intensive graduate study for public school personnel specializing in such fields as educational administration.

### FIELDS

Eastern Illinois University has been authorized to offer the Specialist in Education degree (Ed.S.) in Educational Administration and Supervision, Guidance and Counseling.

### PROGRAM OF STUDIES

The courses proposed in the student's program for the Specialist in Education degree must total sixty-four semester hours. Ordinarily, in the first thirty to thirty-two semester hours, the student will complete the requirements for a master's degree although it is not required that the master's degree be completed within the first half of the total program.

The requirements for the Ed.S. are specifically planned to satisfy certification and accreditation requirements and are divided into three parts:

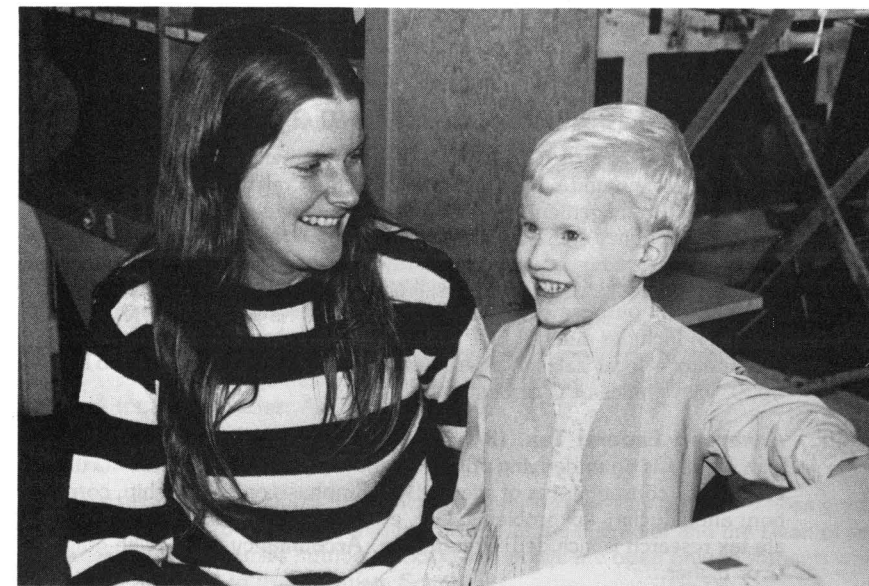
- a. Foundations of Education . . . . . 8-9 sem. hrs.
- b. Major Field . . . . . 43-48 sem. hrs.
- c. Related Areas . . . . . 8-13 sem. hrs.
- d. Electives in Educational Administration . . . . . 0-5 sem. hrs.

### FINAL EXAMINATION

The candidate for the Specialist in Education degree must stand a final comprehensive examination which may be written or oral or both written and oral. This examination is given by a committee appointed by the advisor. The passing of this examination must be certified by the advisor at least one week prior to the completion of the requirements for the Ed.S.

### FIELD EXPERIENCE

1. Field experience papers must be filed in Booth Library.
2. Two professionally bound copies of the report will be required (one original and the other either a carbon or a Xerox copy). A minimal fee is charged for this binding.
3. An abstract of the report will be required.
4. Regulations governing the field experience paper are available at the Office of the Graduate Dean.



Preparing Child Care Professionals, Family Services Program, Home Economics

## DESCRIPTION OF COURSES AND PROGRAMS

### NUMBERING OF COURSES

Courses numbered 4750-4999 may be taken by juniors, seniors, and graduate students. Credit toward a graduate degree in courses numbered 4750 through 4999 should be limited to 10 semester hours or less unless exceptions are authorized by the major department. In all cases, at least 17 semester hours (non-thesis option) or 15 semester hours (thesis option) of the coursework on the study plan must be numbered 5000 or higher.

Courses numbered 5000-5499 may be taken by seniors with special permission (see "Seniors at EIU", page 17) and graduate students. Courses numbered 5500 and above may be taken only by students who have been admitted to the Graduate School.

For courses numbered 4750-4999, the numbers in parentheses following the course title indicate the number of class hours per week — laboratory or studio hours per week — credit hours. For 5000 level courses, the number in parentheses indicates the credit hours expressed in semester hours.

Prerequisites for courses are printed immediately following the course description. Students may not enroll in a course which is prerequisite for a course for which they have credit nor may they enroll in a course which substantially duplicates, at a lower level, a course or courses which they have already successfully completed. Students who violate this prescription may not receive credit for the course toward graduation.

One semester hour of credit requires a **minimum** of three hours of course-related activity per week per semester on the part of the average student. Graduate course descriptions will state the academic credits assigned the course. (The actual allocation of the activity hours will be determined by the appropriate department.)

## ACCOUNTANCY

(See sections on M.B.A. and Business Administration.)

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Profit Planning and Control. (3-0-3)** Fundamental concepts underlying a profit planning and control program and their relationship to the primary functions of management. Students will be involved in budgeting. Prerequisites: Accountancy 2150 and junior standing.
- 4850. Auditing. (4-0-4)** Theory and practice of the examination of financial statements for the purpose of establishing and expressing an opinion as to their reliability. Includes audit of EDP systems, statistical sampling techniques and the auditor's legal liability. Prerequisites: Accountancy 3030, 3051, and 4050, with grades of C or better.
- 4900. Advanced Federal Tax. (3-0-3)** A continuation of Accountancy 4610, with emphasis on underlying principles and concepts in the income tax laws, and the tax consequences of alternatives. Emphasis on partnership, corporation, and fiduciary tax problems. Gift, estate, and inheritance taxes. Corporate tax research is included. Prerequisite: Accountancy 4610, with grade of C or higher.

## ART

Graduate programs in art are designed to meet the interests of the students. Elective courses in the graduate program in art accommodate students with interest in studio art or art history and theory. Some graduate studio courses may be offered on an independent basis.

Degree offered: M.A.

Major: Art

**Admission Requirements:** Degree status admission to the Graduate School (see page 15). GRE (General) or MAT scores (MAT recommended). All students specializing in studio art must present their portfolio to the Department for examination prior to initial registration and assigned an official advisor prior to the completion of 12 semester hours of graduate credit.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as those for Graduate School (see page 18). A graduate student may choose a thesis or non-thesis option. Art Studio students must participate in an annual Graduate Student Exhibition prior to graduation. A minimum of 10 slides of representative graduate works must be submitted for the Art Department slide collection. The Department of Art reserves the right to retain one finished piece of art from each student participating in the Graduate Student Exhibition for the University's permanent collection.

**Graduate Assistantships** are available. Contact department chairperson or graduate coordinator, 216 Fine Arts Bldg., EIU. Phone: (217) 581-3410.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4765. Contemporary American Painting and Sculpture. (3-0-3)** Study of major American artists and tendencies that have developed since 1908.

- 4790. Seminar in Art History and Criticism. (3-0-3)** Intensive study in special topics determined by the instructor. May be repeated for a maximum of six semester hours. Prerequisites: Art 2601, 2602, or permission of the instructor.
- 4800. Advanced Weaving. (0-6-3)** Advanced problems in weaving with particular emphasis upon design using multi-harness looms and double weave techniques to perfect skills. Prerequisite: Art 3802. May be taken twice for credit.
- 4900. Illustration. (0-6-3)** The application of art to illustration, editorial and other commercial uses. Emphasis on editorial content, interpretation, exploration of media and styles, development of personal style. Prerequisite: Senior standing in art or permission of the instructor.
- 4901. Graphic Design III. (0-6-3)** Continued problems in graphic design, including package design, corporate design, display design, proprietary graphics. Prerequisites: Art 3901 and 3902.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5100. Materials for Designing I. (2)** Experimentation with various materials, their limitations and possibilities. Problems vary to meet individual needs. Prerequisite: Written permission from a selected instructor and department chairperson.
- 5200. Painting Problems I. (3)** Emphasis is placed upon the construction and development of form in painting. Prerequisite: Three undergraduate courses in painting.
- 5400. Problems in Art Education. (3)** Analysis of individual and typical problems of teaching art in the public school or junior college. Prerequisite: Art 3410.
- 5560. Contemporary Printmaking. (3)** A study of styles and techniques of contemporary printmakers. Prerequisite: Two courses in undergraduate printmaking or permission of the instructor. May be taken three times for credit.
- 5571, 5572. Advanced Ceramics. (3 each course)** Problem in ceramic design and construction with emphasis upon developing the individual's style and competence. Prerequisite: Nine semester hours undergraduate ceramics. Each may be taken twice for credit.
- 5600. Materials for Designing II. (2)** Advanced study of problems of form. Prerequisite: Written consent from a selected instructor and department chairperson.
- 5610, 5611. Advanced Drawing. (3 each course)** Development of personal expression in drawing. Prerequisite: Three courses in drawing or permission of the instructor. Each course may be taken twice for credit.
- 5620. Watercolor. (3)** Advanced study in various watercolor media. Prerequisite: Two courses in painting. May be taken twice for credit.
- 5671, 5672. Advanced Sculpture. (3 each course)** Student to direct his study toward greater personal mastery of form, medium, and style. Prerequisite: Art 3112 or equivalent and permission of the instructor and the department chairperson. Each course may be taken twice for credit.

- 5701. Painting Problems II. (3)** Individualized study in painting directed toward greater personal expression. Prerequisite: Art 5200.
- 5702. Painting Problems III. (3)** Continuation of Art 5701. Prerequisite: Art 5701. May be taken twice for credit.
- 5771. Problems in Metalsmithing I. (3)** Advanced problems in metalsmithing with experimentation and development in a specific area. Historic and contemporary references will be included. Prerequisite: Eight semester hours equivalent to Art 2700 and 3701. May be taken twice for credit.
- 5772. Problems in Metalsmithing II. (3)** Continuation of Art 5771. Prerequisite: Art 5771. May be taken twice for credit.
- 5800. Research in Art Education. (2)** Familiarization with methods and structure of research in art education and the initiation of research projects. Prerequisite: Written consent from a selected instructor and department chairperson.
- 5850. Art Internship. (3)** Seminar discussion of various procedures in teaching college art courses and supervised intern teaching of prepared lessons within the department. Prerequisite: Written consent from a selected instructor and the department chairperson.
- 5871, 5872. Problems in Nineteenth and Twentieth Century Art I and II. (3 each course)** Individual problems in the art expression of these two centuries. Seminar discussion and research papers relative to various stylistic developments. Each course may be taken twice for credit.
- 5900. Research in Art. (2)** Investigation into various procedures of research and their preparation in all art fields. Prerequisite: Written consent from a selected instructor and department chairperson. May be taken twice for credit.
- 5920. Graduate Exhibition. (2)** Exhibition of graduate works, oral examination of ideas, techniques and formal solutions involved, and a written paper of the procedures and accomplishments with visual illustrations. Prerequisite: Final semester of graduate study. Credit not given for both Art 5920 and 5950. Written consent of a selected instructor and department chairperson.
- 5950. Thesis. (3 to 6)** Prerequisite: Art 5900. Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990. Prerequisite: Written consent from a selected instructor and department chairperson.
- 5990. Independent Study. (1 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5990 and 5950. Prerequisite: Written consent from a selected instructor and department chairperson.

## BOTANY

The botany program provides training for academic research and teaching or for careers related to plant science. Students may elect courses from areas such as plant physiology, mycology, plant taxonomy-systematics, phycology, ecology, plant morphology, anatomy, pathology, microbiology, cytotoxicology, bryology and ethnobotany. Facilities include well-equipped laboratories, greenhouse and collections.

Degree offered: M.S.

Major: Botany

The botany program provides advanced training in all of the major disciplines of plant science, including those listed in the course descriptions below. Additionally, research work, independent study, and correlative courses are available and encouraged in other areas, including those with an agricultural/horticultural emphasis.

Departmental facilities include several well-equipped laboratories, an excellent herbarium, and a multi-room greenhouse for research, teaching, and display. Numerous nearby State Parks, nature preserves, wildlife areas, and waterways complement our on-campus resources.

**Admission Requirements:** Degree status admission to the Graduate School (see page 15); General and Biology Subject GRE scores; an undergraduate minor or its equivalent in botany; a 2.5 grade point average during the last two years of undergraduate study. At least one academic year of college chemistry is required; and one course each in organic chemistry and biochemistry is strongly recommended.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Requirements for Degrees:** The department offers a thesis option (30 semester hours) and a non-thesis option (32 semester hours). Every student completes a written comprehensive qualifying examination during the first semester of study such that any deficiencies in undergraduate preparation in botany can be identified and remedied. Each student's program of study is then flexibly designed to fit individual student needs and interests within the framework of graduation requirements as set forth by the Graduate School (see page 18).

**Graduate Assistantships:** A limited number of graduate assistantships are available to qualified applicants. For details, contact the department chairperson or graduate coordinator, 207 Life Sciences Bldg., EIU. 217/581-3624.

## COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Lichens. (0-4-2)** The structure, identification, and importance of lichens. Prerequisite: Botany 3100.
- 4801. Systematic Botany. (1-4-3)** The classification and characteristics of the common families of flowering plants. Prerequisites: Botany 1010 and 1022.
- 4811. Plant Ecology. (1-4-3)** The study of the structure, successional patterns, and investigative techniques of plant communities. Prerequisite: Two years of biological sciences.
- 4821. Bryology. (1-4-3)** The structure, identification, life-history, and importance of the mosses and liverworts, fall field trip required. Prerequisite: Botany 3200.
- 4851. Plant Anatomy. (1-4-3)** The study of the tissues and cellular elements which comprise the vegetative plant body of seed plants. Prerequisite: Botany 3200.
- 4882. Phycology. (1-4-3)** The structure, classification, life-history, and economic importance of the algae. Prerequisite: Botany 3100.
- 4901. Plant Pathology. (1-4-3)** The basic principles of plant disease with emphasis on symptoms, causal agents, and control. Prerequisite: Botany 3100.
- 4990. Seminar. (0-2-1)** Reports and discussions of selected topics in botany. Prerequisites: Two years of biological sciences and permission of the department chairperson. May be taken more than once but for no more than four semester hours.

## GRADUATE COURSES (ON DEMAND)

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the

Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5102. Taxonomy of Aquatic Macrophytes. (2)** The study of the taxonomy and ecology of the aquatic macrophytes of the midwest. Prerequisite: Botany 1022.
- 5202. Plant Geography. (3)** The study of factors influencing the distribution of North American plants. Prerequisite: Botany 4811.
- 5222. Cytotaxonomy. (3)** The structure and function of chromosomes and their relationship to the evolution and taxonomy of seed plants. Prerequisites: Life Science 3200; and Botany 4801.
- 5302. Plant Anatomy II. (3)** The study of structural organization and development of the vegetative and floral organs of seed plants. Prerequisite: Botany 4851.
- 5342. Environmental Bacteriology. (3)** Techniques in the study of the bacteriology of air, water, sewage treatment, soil, and foods. Prerequisite: Botany 3300.
- 5351. Advanced Bacteriology. (2)** Aspects of bacterial cytology and physiology. Prerequisites: Chemistry 3430 and Botany 3300.
- 5362. Fungi I, Phycomycetes. (4)** The structure, identification, and importance of the lower fungi. Prerequisite: Botany 3100; Botany 3300 recommended.
- 5371. Fungi II, The Higher Fungi. (4)** The collection and identification of macrofungi. Prerequisite: Botany 3100.
- 5452. Ethnobotany. (3)** The basic principles of the relationships of plants and man. Prerequisites: Botany 1010 and 2320.
- 5472. Advanced Plant Physiology I, Inorganic Nutrition. (3)** The principles of water relations in plants with emphasis on absorption, translocation, and the function of inorganic mineral elements. Prerequisites: Botany 3541 and Chemistry 3430; biochemistry recommended.
- 5482. Advanced Plant Physiology II, Metabolism. (3)** The principles of photosynthesis, respiration, and organic translocation. Prerequisites: Botany 3541 and Chemistry 3430; biochemistry recommended.
- 5611. Advanced Plant Ecology. (3)** The laboratory analysis of soils and vegetation; microenvironmental measurements and physiological procedures used in ecological studies. Prerequisite: Botany 4811.
- 5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Advanced studies in a selected field of botany other than the thesis. Prerequisite: Permission of the department chairperson. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

## BUSINESS ADMINISTRATION

(See section on M.B.A.)

### GRADUATE COURSES

(Courses numbered 5000-5099 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the

Graduate School. Courses numbered 5100 and above are open only to students who have been admitted to the M.B.A. degree program.)

- 5005. Quantitative Analysis. (3)** Designed to provide students with skills in quantitative techniques necessary for advanced work in functional areas of business administration. Prerequisite: Mathematics 1290 or 1300 or satisfactory placement score.
- 5010. Essentials of Accounting. (3)** An introduction to financial and managerial accounting within the framework of an information systems approach. Not open to students working toward or having a B.S. in Business degree or a B.S. in Education degree with a major in Business Education.
- 5100. Business Research Methods. (3)** Business research methodology including the meaning of research, its sequential development, types, and the steps of the scientific method applied to business. Practical and academic applications are explored. Prerequisites: Management 2810 and admission to the M.B.A. degree program.
- 5255. Manpower Management. (3)** A comprehensive study of personnel programs and their management in formal organizations; research into the operation of personnel management. Prerequisites: Management 3010 and admission to the M.B.A. degree program.
- 5305. Communication Analysis. (3)** Analysis of the functions, planning, psychology, and the organization of selected types of written and oral business communications. Prerequisite: Admission to the M.B.A. degree program.
- 5355. Promotion Management. (3)** A study of consumer behavior and demand stimulation with emphasis in verbal and non-verbal communication theory. Prerequisites: Marketing 3470 and admission to the M.B.A. degree program.
- 5415. Marketing Management. (3)** The techniques of management as applied to the functional areas of marketing. Both quantitative and behavioral tools are used. Prerequisites: Marketing 3470 and admission to the M.B.A. degree program.
- 5590. Operations Research. (3)** Principles and methods of operations research: topics in linear programming; PERT, inventory models, queuing theory, simulations, and probability theory. Prerequisites: Management 2810; Business Administration 5005 or Mathematics 2110 and 2120; and admission to the M.B.A. degree program.
- 5605. Managerial Accounting Control. (3)** A case approach for analyzing management control problems. Prerequisites: Accountancy 2150 or Business Administration 5010; and admission to the M.B.A. degree program.
- 5640. Financial Management. (3)** A framework for determining efficient allocation of resources within the firm. Methods of economic analysis to relate the functional discipline of managerial finance — techniques for forecasting financial requirements under uncertainty, problems of income determination, long-term commitments to uncertain payoff vectors, internal and external capital rationing, and problems of identifying capital supply functions. Prerequisites: Finance 3710, Management 2810, and admission to the M.B.A. degree program.
- 5660. Operations Management. (3)** An examination of operating problems from the standpoint of the production executive. Prerequisites: Management 3010 and admission to the M.B.A. degree program.

- 5670. Management Information Systems. (3)** An examination of managerial problems related to computer-based information systems. Within the context of systems theory and control theory, the student examines critical areas of design, development and analysis of management information systems. Prerequisites: Data Processing 2175 and admission to the M.B.A. degree program.
- 5680. Organizational Behavior and Group Dynamics. (3)** Organizational and business application of theory and research in individual differences, interpersonal relations, and small group dynamics. Prerequisites: Management 3010 and admission to the M.B.A. degree program.
- 5880. Seminar in Business Administration. (3)** Intensive study of contemporary problems, issues, trends and developments in accounting, marketing, finance, organizational theory, or information systems. May be taken twice for credit. Prerequisites: Completion of corresponding core course on topic being offered and admission to the M.B.A. degree program.
- 5890. Administrative Policy. (3)** Top management functioning. Emphasis is on integration of functions. Case studies, special reports and seminar discussions of top management problems. Prerequisites: At least twelve semester hours of required M.B.A. graduate courses and admission to the M.B.A. degree program.
- 5950. Thesis. (3 to 6)** The development of the method of attack and the execution of a formal research study. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1-6)** Intensive investigation of a topic in cooperation with an approved instructor. Enrollment is by application. Prerequisites: Graduate standing, consent of approved instructor and approval of a completed application by the department chairperson prior to registration. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

## BUSINESS EDUCATION AND ADMINISTRATIVE OFFICE MANAGEMENT

This program provides advanced training for teachers, coordinators and/or administrators of vocational business education programs. Students must take courses in each of four areas: vocational education, foundation of business education, business content, and improvement of instruction.

Degree offered: M.S. in Ed. Major: Business Education

**Admission Requirements:** Degree status admission to the Graduate School. (See page 15.) GRE (General) score.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 17.

**Graduation Requirements:** Graduate School requirements (see page 18).

**Graduate Assistantships** are available. Contact the department chairperson, 209 Blair Hall, EIU. Phone: (217) 581-2627.

### Requirements for degrees:

Basic Education Courses, chosen from EDF 5500, EDF 5510,

EDP 5520, EDF 5530, EDF 5540	8 s.h.
BED 5720, 5900, 5300	6 s.h.
BED 5800, 5810	6 s.h.
BED 4913, 4923, 5060, 5070, 5080, 5090	6 s.h.
BED 4750 or selected courses in Master of Business Administration program	3 s.h.
Electives in Business Education courses or related areas	6 s.h.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Office Management. (3-0-3)** Planning and organizing administrative office operations; implementing management-control function through systems analyses, work measurement and standards, budgetary control, and job analyses; staffing, training, orienting and supervising office workers.
- 4800. Electronic Information Processes. (2-0-2)** The study of sophisticated transmission systems, including electronic, telecommunication, fiber optic, and satellite transmission; and their impact on information processing in the office. Prerequisite: Junior standing.
- 4913. Organization and Administration of Cooperative Occupational Education. (3-0-3)** Introduction to cooperative education programs, program needs, resources, constraints, public relations, and policy development are analyzed.
- 4923. Coordination Techniques for Cooperative Occupational Education. (3-0-3)** Methods and techniques for preparation of teacher coordinators. Student selection, training agreements, training plans, legal requirements, related class management, individualized instruction, and program evaluation are emphasized.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5060. Administration and Supervision of Occupational Education. (2)** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3)** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1)** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.

- 5090. Seminar in Occupational Education. (1-4)** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics and Technology Education. A student may take the course for credit in only one of the departments.
- 5300. Measurement and Evaluation in Business Education. (3)** Testing techniques; construction of tests in cognitive and skill areas; statistical procedures necessary for test interpretation and use.
- 5720. Issues and Trends in Business Education. (3)** Current issues and problems in business education curriculum and practices which arise from needs and interests of students.
- 5800. Improvement of Instruction in Office Education. (3)** May be taken twice for credit. Methods and techniques of teaching; curriculum, instructional media, materials, and equipment; research significant to the teaching of office education subjects.
- 5810. Improvement of Instruction in Basic Business Education. (3)** May be taken twice for credit. Methods and techniques of teaching; curriculum, development of materials; research in the areas of basic business, accounting, and data processing.
- 5900. Research in Business Education. (3)** Analysis and evaluation of research in business curricula area; introduction to research technique and preparation of formal research report.
- 5950. Thesis. (3 to 6)** Plan, design, and conduct of research culminating in formal written report of research findings, conclusions, and recommendations. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Intensive investigation of a topic in cooperation with an approved instructor. Enrollment is by application. Prerequisites: Graduate standing, consent of approved instructor and approval of a completed application by the department chairperson prior to registration. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

## CHEMISTRY

This program provides advanced study of the major areas of chemistry, including analytical, inorganic, physical, organic, and biochemistry specializations. Students gain original research experience by undertaking a thesis project. Graduates are qualified for responsible positions in industry, government and education or to enter doctoral study.

Degree offered: M.S.

Major: Chemistry  
(also see M.S. in Ed., major in  
Physical Science)

**Admission Requirements:** Degree status admission to the Graduate School (see page 15). GRE (General) score.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

### Requirements for Degrees:

Courses chosen from: Chemistry 4750, 4770, 4800, 4900, 4905, 4940, 4960, 5120, 5200, 5250, 5300, 5400, 5410, 5460 ..... 15-24 s.h.  
Courses in Physics, Mathematics, Botany or Zoology  
(as approved by student's committee) ..... 0-6 s.h.  
Chemistry 5890 and 5950 ..... 6-9 s.h.  
TOTAL ..... 30 s.h.

**Graduation Requirements:** Same as for Graduate School (see page 18).

**Graduate Assistantships** are available. Research assistantships attached to research grants may be available. Contact department chairperson or graduate chemistry coordinator, 314 Physical Science Bldg., EIU. Phone: (217) 581-3322.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Scientific Glassblowing. (0-3-1)** Basic glassworking techniques, including construction of several pieces of laboratory glasswork. Prerequisite: Consent of instructor due to limited enrollment.
- 4770. Molecular Structure. (1-6-3)** Determination of molecular size, shape, flexibility and electronic structure from spectroscopic measurements; spectrometric identification of organic compounds using NMR, mass spectrometry, UV-visible and IR spectrometry. Prerequisite: Chemistry 3920. (Graduate students whose undergraduate preparation lacks a course equivalent to Chemistry 3920 should register for Chemistry 5300 prior to or concurrent with registration in Chemistry 4770.)
- 4780. Chemical Instrumentation for Biology. (1-3-2)** An introduction to the use of the major instruments of analytical chemistry used for research in botany, environmental biology, life science, and zoology. Laboratory work will stress sample preparation and analysis of samples used in typical research projects. Does not count toward graduation credit for either B.S. or M.S. degrees in Chemistry. Prerequisites: Eight semester hours of chemistry and 12 semester hours of biological sciences.
- 4800. Selected Topics in Chemistry. (Arr.-Arr.-1 to 3)** A course in a selected area of analytical, biological, inorganic, organic, physical, or polymer chemistry. May be repeated for credit if a different topic is taught. Prerequisite: Chemistry 3910 or permission of the instructor.
- 4900. Modern Inorganic Chemistry. (3-0-3)** A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding and coordination theory. Prerequisite: Chemistry 3910.
- 4905. Modern Inorganic Chemistry Laboratory. (0-3-1)** Prerequisite: Chemistry 4900 or simultaneous enrollment therein.
- 4940. Nuclear Chemistry. (2-3-3)** Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses. Prerequisite: Two years of chemistry.
- 4960. Industrial Chemistry. (3-0-3)** A detailed survey of the interrelation of the scientific, engineering and business aspects of the chemical industry including heat and mass balance, chemical economics, chemical marketing, case studies of important inorganic and organic processes. Prerequisite: Chemistry 3910 or permission of the instructor.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade



point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

The following courses are available for the M.S. in Education degree in Physical Science: Chemistry 5030, 5040, 5050, 5070, 5080, 5990.

- 5010. History of Chemistry. (3)** The historical development of the science of chemistry is studied with the extensive use of reference materials. Prerequisite: Two years of chemistry.
- 5030. Advanced Methods for the Teaching of Chemistry. (3)** The development of methods emphasizing inquiry through laboratory, demonstration and lesson presentation with self-evaluation by videotape. Prerequisite: High school chemistry teaching experience or permission of the department chairperson. May be used for credit toward M.S. in Education degree only.
- 5040. Chemical Instrumentation for High School Teachers. (3)** Designed for high school teachers to give them practical experience in instrument design and performance for laboratory experiments applicable to a high school chemistry course. Prerequisite: High school science teaching experience or permission of the department chairperson. May be used for credit toward the degree M.S. in Ed. only.
- 5050. Modern Organic Chemistry for High School Teachers. (3)** Designed to provide high school teachers with an understanding of the basic principles of organic chemistry. Application of these principles to organic compounds that are of commercial, biological and environmental significance will be emphasized. Prerequisite: High school science teaching experience or permission of the department chairperson. May be used for credit toward the degree M.S. in Ed. only.
- 5070. Elements of Physical Chemistry for High School Teachers. (3)** A non-calculus course in physical chemistry designed for high school teachers of chemistry and biological science. Prerequisite: At least two years of college chemistry. Credit not granted to those with credit in Chemistry 3910, 3920. May be used for credit toward the degree M.S. in Education only.
- 5080. Special Topics in Chemistry for High School Teachers. (3)** A course in a selected area of chemistry for high school teachers. May be repeated for credit if a different topic is taught. May be used for credit toward the M.S. in Education degree only.
- 5120. Theoretical Inorganic Chemistry I. (3)** Modern theories of chemical bonding, magnetic properties and organometallic chemistry of the transition metals. Prerequisite: Chemistry 3920.
- 5200. Chemical Thermodynamics. (3)** A study of the laws governing the passage of energy from one chemical system to another and the transformation of energy from one form to another. Prerequisite: Chemistry 3920.
- 5250. Special Topics. (3)** A course in a selected area of physical, analytical, inorganic, organic or biochemistry. May be repeated for credit if a different topic is taught. Prerequisite: Chemistry 3920 or permission of the instructor.
- 5300. Molecular Spectroscopy. (3)** A study of the quantum principles, theory and applications of microwave, IR, UV, and NMR spectroscopy. Prerequisite: Chemistry 3920; Chemistry 4770 is desirable.
- 5400. Physical Organic Chemistry. (3)** A course covering certain aspects of physical chemistry as related to organic molecules and their reactions. Prerequisites: Chemistry 3840 and 3920.

- 5410. Organic Mechanisms and Synthesis. (3)** A study of the mechanisms of reactions and methods of synthesis in organic chemistry. Prerequisite: Chemistry 3840.
- 5460. Biochemistry. (3)** General biochemistry; basic mechanisms of biological processes; enzyme action; genetic and hormonal control; metabolic cycles. Prerequisite: Chemistry 3840.
- 5890. Graduate Research. (1 to 6)** Prerequisite: May be taken only after specific arrangements are made with the student's research advisor and the department chairperson.
- 5950. Thesis. (3)**
- 5990. Independent Study. (1 to 6)** Selected problems based upon the student's background and interests. May be used as credit toward M.S. in Education degree only. Prerequisite: Permission of instructor and department chairperson.

## DATA PROCESSING

(See sections on M.B.A. and Business Administration.)

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4810. Computer-Based Business Application. (3-0-3)** An intensive study of quantitative models as they relate to solution by digital computers. Ready-made vs. custom built; descriptive vs. optimizing; and static vs. dynamic models will be investigated. Prerequisites: Data Processing 2300 or 2310, and Management 2810.

## ECONOMICS

Elective courses in the graduate program accommodate students with an interest in areas of economics such as international economics, economic development, theory, labor, monetary policy and banking, government and business, economic history and history of thought. The program's objectives are to prepare students for doctoral study or to provide qualified economists to staff industry and governmental positions.

Degree offered: M.A.

Major: Economics

**Admission Requirements:** Degree status admission to the Graduate School (see page 15) GRE (General) score. In addition, applicants should have 18 semester hours of undergraduate work in economics or be willing to make up deficiencies without credit toward their graduate degree and mathematics courses equivalent to MAT 1290, 2110 and 2120. Equivalence of mathematics courses will be evaluated by the Graduate Committee of the Economics Department.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as those for the Graduate School (see page 18). In addition, all candidates must complete ECN 4993, 5401, 5402, and one basic statistics course. In addition, students choosing the non-thesis option must complete ECN 5900.

**Graduate Assistantships** and internships are available. Contact department chairperson or graduate coordinator, 208 Coleman Hall, EIU. Phone: (217) 581-2719.

**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

- 4751. Managerial Economics. (3-0-3)** The application of economic theory and method to managerial decision making. Prerequisites: Economics 2802 and Management 2810 or permission of the department chairperson.
- 4801. Intermediate Macroeconomic Theory. (3-0-3)** Analysis of the determination of national income, employment, wages, and factors affecting inflation and growth. Prerequisite: Economics 2802.
- 4802. Intermediate Microeconomic Theory. (3-0-3)** Analysis of product and factor price theory under alternative market classifications. Prerequisite: Economics 2802.
- 4803. Mathematical Economics. (3-0-3)** The application of mathematical tools to economics. Various economic theories are formulated in a mathematical framework. Prerequisite: Economics 4802 or permission of the instructor.
- 4813. The Soviet Economy. (3-0-3)** A descriptive analysis of the economic structure of the Soviet Union with primary emphasis on the post World War II period. Prerequisite: Economics 2802 or permission of the instructor.
- 4840. Money and Banking. (3-0-3)** Money and banking in the modern economy; history and theory of monetary policy. Prerequisite: Economics 2802 or the equivalent.
- 4861. International Economic Problems. (3-0-3)** Current international economic problems; balance of payments adjustment; exchange rate policy; international monetary mechanism. Prerequisite: Economics 3860 or permission of the instructor.
- 4872. Economic Planning. (3-0-3)** A study of development planning by public authorities in market economies as well as command economies. Prerequisite: Economics 2802 or permission of the instructor.
- 4875. Area Studies. (3-0-3)** A study of economic conditions and development problems in a specific geographical area such as Tropical Africa, Middle East, or Latin America. The topic will vary from semester to semester; the course may be repeated with each change of topic. Prerequisite: Economics 2802 or permission of department chairperson.
- 4950. Independent Study. (Arr.-Arr.-2 or 3)** Independent study in economics. Designed for the individual student needs at either the undergraduate or graduate level. Prerequisite: Economics 2802 and pre-registration conference with the chairperson of the department.
- 4991. Statistics Applied to Economics I. (3-0-3)** Measures of central tendency and dispersion, statistical distributions, regression, and hypothesis testing with applications to economics. Prerequisite: Economics 2802 or permission of the instructor. No credit toward graduation for a student with credit in another introductory statistics course.
- 4992. Statistics Applied to Economics II. (3-0-3)** Nonparametric statistics, chi-square and F distributions, index numbers, and time series with application to economics. Prerequisite: Economics 4991 or permission of the instructor.
- 4993. Introduction to Econometrics. (3-0-3)** A study of regression estimations, tests and prediction, estimation problems and remedies, simultaneous equations systems with application to economics. Prerequisites: Economics 4991, Mathematics 2110, 2120 and/or permission of instructor.

**GRADUATE COURSES**

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5275. Internship in Economics. (1 to 3)** May be repeated for a second semester. Supervised internship in a private business or a government agency. Prerequisite: Graduate standing and approval of the chairperson. A maximum of nine semester hours may be earned in a combination of 5275, 5950 and 5990.
- 5401. Advanced Macroeconomic Theory. (3)** Advanced analysis of determination of income, employment, investment, and wages; inquiry into the nature of equilibrium and equilibrating process. Prerequisite: Economics 4801 or permission of the instructor.
- 5402. Advanced Microeconomic Theory. (3)** A development of value and distribution theories. Detailed analysis of the reactions of consuming and producing units. Prerequisite: Economics 4802 or permission of the instructor.
- 5421. Seminar in Recent History of Economic Thought. (3)** A study to acquaint students with the best minds that exerted themselves on economics as a body of scientifically developed propositions since 1900. Prerequisite: Economics 4520 and/or permission of the instructor.
- 5441. Seminar in Monetary Theory. (3)** Critical inquiry into the nature of the demand for money and the effect of monetary policy on national income and employment. Prerequisite: Economics 4840 or equivalent.
- 5451. Seminar in Public Finance. (3)** A study of the relationship between the public sector and the rest of the economy. Prerequisites: Economics 4801 and 4802.
- 5461. Seminar in International Economics. (3)** A study of the pure and monetary theories of international economics. Prerequisite: Economics 3860 or permission of the instructor.
- 5471. Seminar in Economic Development. (3)** A study of the theories and institutions of development and underdevelopment. Prerequisite: Economics 4570 or permission of the instructor.
- 5481. Seminar in Public Control of Industry. (3)** Selected problems of economic policy arising from the interrelations of government and business with emphasis on maintaining competitive enterprise. Prerequisite: Economics 3880 and/or permission of the instructor.
- 5491. Problems in Labor Economics. (3)** The theory of wages and employment; the applications of the theory to contemporary problems. Prerequisite: Economics 3890 and/or permission of the instructor.
- 5493. Economics of Human Resources. (3)** A study of current problems in the areas of manpower development and utilization. Prerequisite: Economics 3890 and/or permission of the instructor.
- 5900. Research Methods. (2)** The formation of concepts, hypotheses, theories and research problems; the selection of research method; error in economic data.
- 5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950, 5990, and 5275.

**5990. Independent Study. (1 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5990, 5950, and 5275.

## EDUCATIONAL ADMINISTRATION

The School Service Personnel Department is the administrative headquarters for administering graduate programs in both Information Services and Technology and Educational Administration. Many courses are offered at night on-campus and at off-campus locations via the Continuing Education office. Careful choice of coursework will allow students to qualify for Illinois School Administrative Certification.

Degrees offered: M.S. in Ed. Major: Educational Administration  
Ed.S. (6th yr.)

**Accreditation:** National Council for Accreditation of Teacher Education and North Central Association.

**Admission Requirements:** Degree Status admission to the Graduate School (see page 15), MAT or GRE (General) score.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See pages 17 and 35.

### Requirements for Degrees:

#### EDUCATIONAL ADMINISTRATION (M.S. in Ed.)

Foundations: EDF 5500, EDP 5520 ..... 6 s.h.  
Electives (minimum of 2 s.h.): EDF 5510 or 5530 or 5540 ..... 2 s.h.

Major:

Required for General Administrative Endorsement:

EDA 5410, 5420, 5600, 5630 or 5640, 5700, 5870, 5900, 5960 ..... 25 s.h.

TOTAL ..... 33 s.h.

#### EDUCATIONAL ADMINISTRATION (Ed.S.)

Foundations: EDF 5500, EDP 5520 ..... 6 s.h.  
Electives (minimum of 2 s.h.): EDF 5510, 5530 or 5540 ..... 2 s.h.

Major:

The endorsement for the certification as a school superintendent requires those courses required for the General Administrative endorsement plus the following courses:

EDA 5850, 5860, 5960, 6650, 6700, 6870, 6910 ..... 43 s.h.

Related Area ..... 8-13 s.h.

Other electives in Educational Administration ..... 5-0 s.h.

TOTAL ..... 64 s.h.

**Graduation Requirements:** Must meet all requirements of the Graduate School (see page 18) and for the appropriate degree (see either M.S. Ed., page 35, or Ed.S., page 39).

**Graduate Assistantships** are available for M.S. in Ed. or Ed.S. students for Educational Administration majors. Contact Department Chairperson, 221 Buzzard Education Bldg., EIU. Phone: (217) 581-2826.

## COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

**4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

**4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

## GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

**5410 (4810). School Law. (3)** A course designed to develop an understanding of the basic legal factors related to the school.

**5420 (4820). School-Community Relations. (2)** Procedures and practices in developing a good school-community relations program.

**5490. Special Educational Problems. (1-3)** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the instructor.

**5600. Introduction to Organization and Administration. (4)** Educational administration in social and historical perspective; authentication and application of principles of administration. Prerequisite: Eight semester hours in education and psychology.

**5630. Administration and Supervision of the Elementary School. (4)** Develops interrelationship of pupils, staff and patrons in the elementary school. Prerequisite: Educational Administration 5600 or equivalent.

**5640. Administration and Supervision of the Secondary School. (4)** Develops an understanding of the role of the principal of the secondary school. Prerequisite: Educational Administration 5600 or equivalent.

**5700. Supervision of Instruction. (3)** Origin and development of the supervisory function. Prerequisite: Educational Foundation 5500.

**5850. School Plant Planning. (2)** Relates school plants to the instructional program and community resources. Prerequisite: Educational Administration 5600 or equivalent.

**5860. School Finance. (3)** A study of the support of public school and the expenditures of school funds. Prerequisite: Educational Administration 5600 or equivalent.

**5870. Personnel Administration. Teacher-Administrator Relationships. (3)** Principles and practices of personnel administration in educational institutions. Prerequisite: Educational Administration 5600 or equivalent.

**5900. Introduction to Research in Education. (2)** Gives experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research. Prerequisite: Eight semester hours in education and psychology.

**5910, 5920. Internship in Administration. (3 each course)** Prerequisite: Permission of the department chairperson.

**5950. Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

**5960. Data Management in Educational Administration. (3)** This course focuses on the development of skills which will enable school administrators

to logically and systematically utilize data management functions to provide effective services and to make effective decisions.

- 5990. Independent Study. (1 to 6)** Intended to permit a student to pursue more intensively various aspects of the area of his/her special interest. Prerequisite: Permission of the department chairperson. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
- 6600. Problems in School Administration. (2 or 4)** An advanced seminar in problems of significance to educational administration. Prerequisites: At least eight semester hours in administration and supervision.
- 6650. The Superintendent of Schools. (4)** The superintendent of schools: leadership roles, dimensions of the administrative process, and functional areas in administration. Prerequisites: A master's degree in Educational Administration, experience as an educational administrator, or approval of the department chairperson.
- 6660. Administration in Higher Education. (3)** A study of the scope, nature, and function of administration in higher education. Prerequisites: Equivalent of the master's degree and/or permission of the department chairperson.
- 6700. Planning and Evaluation of Instructional Programs. (3)** A study of approaches to planning and evaluation of instructional programs. Emphasis is placed upon the use of systems analysis, goals and objectives and evaluation models.
- 6810. Seminar: School Operations and the Law. (2) On demand.** A course designed to advance the school administrator's understanding of the major legal factors which impinge upon his/her functions. Emphasis is upon current trends as revealed in recent case law and new legislation. Prerequisite: Educational Administration 5410 or equivalent or permission of the department chairperson.
- 6870. Professional Negotiations – Collective Bargaining in Education. (3) On demand.** Designed to provide aspiring and practicing school administrators with information necessary to develop understanding and skills required for leadership in the collective bargaining process. Prerequisite: Educational Administration 5870 or permission of the department chairperson.
- 6900. Seminar: Theory and Research in Educational Administration. (2) On demand.** Development of theories of administration in general and of educational administration in particular. Prerequisite: Permission of the department chairperson.
- 6910, 6920. Field Experience in Administration. (4 each course)** The field experience is planned by the student's committee and the supervising administrator. Prerequisite: Admission to candidacy for the degree Ed.S. and permission of the department chairperson.

## EDUCATIONAL FOUNDATION

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Introduction to Adult Education. (3-0-3)** Adult education today, its career opportunities, and its historical and theoretical foundations.

## GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5500. Curriculum Development. (3)** Basic determinants of curriculum; factors influencing curricular design; current trends, including experimental programs and practices. Credit applicable to the requirements for the degree M.S. in Ed.
- 5510. Social Foundations of Education. (3)** The school in society; effects of cultural patterns, social classes, community organizations, and some social problems. Credit applicable to the requirements of the degree M.S. in Ed.
- 5530. Philosophy of Education. (2)** The sources of systematic theories, and critical analyses of some common educational slogans and ideologies. Credit applicable to the requirements for the degree M.S. in Ed.
- 5540. History of Educational Thought. (2)** Major economic, political, religious, and scientific ideas of education constantly recurring and interacting with Western civilization. Credit applicable to the requirements for the degree M.S. in Ed.
- 5990. Independent Study. (1 to 6) On demand.** Intended to permit a student to pursue more intensively various aspects of the area of his/her special interest. Prerequisite: Permission of the department chairperson.

## EDUCATIONAL GUIDANCE

The Department of Educational Psychology and Guidance offers programs designed for students with interest in: Elementary and Secondary School Counseling, College Student Personnel Work, Community Counseling.

Degrees offered: M.S. in Ed.                      Major: Guidance & Counseling  
Ed.S. (6th yr)

**Admission Requirements:** Degree Status admission to the Graduate School (see page 15), MAT or GRE (General) scores.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 17.

### Requirements for Degrees:

M.S. in Ed.

Major Area — 20-24 semester hours chosen from appropriate courses with approval of the department advisor.

Basic Courses in Education — 8-12 semester hours chosen from courses below:

- EDF 5500 Curriculum Development
- EDF 5510 Social Foundations of Education
- EDP 5520 Understanding the Individual
- EDF 5530 Philosophy of Education
- EDF 5540 History of Educational Thought

For state certification as a school counselor, work must be taken from each major area listed below:

- Principles and Techniques of Guidance
- Appraisal Techniques
- Growth and Development of the Individual
- Principles and Practices of Counseling
- Occupational, Educational, Personal & Social Information
- Personality Dynamics

**Graduation Requirements:** Same as for the Graduate School (see page 18).

**Graduate Assistantships** are available. Contact Department Chairperson, 310 Buzzard Education Bldg., EIU. Phone: (217) 581-2400.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4900. Principles and Techniques of Guidance. (3-0-3)** An introductory course, principles and purposes underlying guidance activities. Prerequisite: Eight semester hours in education and psychology. Required of students in family services curriculum.
- 4910. Guidance in the Elementary School. (3-0-3)** A study of principles and techniques of guidance services in the elementary school. Prerequisite: Eight semester hours in education and psychology.
- 4913. Organization and Administration of Cooperative Occupational Education. (3-0-3)** Introduction to cooperative education programs, program needs, resources, constraints, public relations, and policy development are analyzed.
- 4923. Coordination Techniques for Cooperative Occupational Education. (3-0-3)** Methods and techniques for preparation of teacher coordinators. Student selection, training agreements, training plans, legal requirements, related class management, individualized instruction, and program evaluation are emphasized.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.

- 5090. Seminar in Occupational Education. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5100. Counseling the Mature and Aged Person. (3)** Counseling techniques and practice in dealing with problems pertaining to the fulfillment of life in later years. Life style changes of middle and later years are included. Prerequisite: Permission of the department chairperson.
- 5360. Introduction to Family Counseling. (3)** A study of the emergence of and basic theoretical concepts of family counseling and its utilization. Prerequisite: Permission of the department chairperson.
- 5490. Special Educational Problems. (1-3)** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of the instructor. May be repeated for a total of six semester hours credit.
- 5720. Measurement Applied to Guidance. (3)** A study of the selection, administration, scoring, and interpretation of standardized tests and other measuring techniques used in guidance and counseling programs. Prerequisite: Eight semester hours in education and psychology.
- 5730. Play Therapy. (3)** The importance of play in education; discussion of theories and values of play; using play as therapeutic treatment. Prerequisite: Permission of the department chairperson.
- 5760. Student Services and Programs in Higher Education. (3)** A study of personnel functions affecting students in higher education including admissions, financial aid, housing, student activities, counseling, and placement. Prerequisite: Eight semester hours in education and psychology.
- 5770. Student Personnel Services and Administration in Higher Education. (3)** A study of student personnel functions and leadership strategies. Attention to the history, ethical and legal issues, staff development programs, management and evaluation. Prerequisite: Educational Guidance 5760.
- 5880. Practicum in Student Personnel Work in Higher Education. (3)** Supervised practice in student personnel work according to the student's background and preferences. Prerequisite: Permission of the department chairperson.
- 5881. Practicum in Student Personnel Work in Higher Education. (3)** Supervised practice in student personnel work according to the student's background and preferences. Prerequisite: Permission of the department chairperson.
- 5890. Current Practices and Problems in Counseling. (4)** A course in theory and practices of counseling with emphasis upon the duties of the school counselor.
- 5891. Career Counseling. (3)** A survey and practice course devoted to specific aspects of career choice and work with individuals in a counseling situation. Prerequisite: Permission of the department chairperson.
- 5910. Organization and Administration of Guidance and Personnel Services. (3)** Principles and practices in organization and administration of guidance programs, public relations, integration and guidance services and curriculum. Prerequisite: Educational Guidance 4900 or 4910.

- 5920. Occupational, Educational, Personal, and Social Information. (3)** Sources, evaluation, and use of occupational, educational, personal, and social information. Job requirements and training facilities. Prerequisite: Educational Guidance 4900 or 4910.
- 5930. Counseling Practicum. (4)** Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest. Prerequisites: Educational Guidance 5890 and permission of the department chairperson.
- 5940. Principles and Techniques of Group Guidance. (2) On demand.** A study of the principles and their application in the area of group guidance. Prerequisite: Educational Guidance 4900 or 4910.
- 5950. Thesis and Research. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990. Prerequisite: Permission of the department chairperson.
- 5990. Independent Study. (1 to 6)** Intended to permit a student to pursue more intensively various aspects of the area of his/her special interest. Prerequisite: Permission of the department chairperson. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
- 6880. Seminar in Guidance. (3)** Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field. Prerequisite: Permission of the department chairperson.
- 6900. Field Study in Guidance. (3)** Supervised experience in all services normally considered a part of the guidance program. Prerequisites: Educational Guidance 5930 and permission of the department chairperson.
- 6910. Field Study in Guidance. (3)** Supervised experience in all service normally considered a part of the guidance program. Prerequisites: Educational Guidance 5930 and permission of the department chairperson.
- 6941. Principles of Group Counseling. (3)** A study of the principles and their application in the area of group counseling including techniques of group discussion, sociometrics, and role-playing. Prerequisite: Educational Guidance 5890.

## EDUCATIONAL PSYCHOLOGY

(See sections on M.S. in Ed. and Ed.S.)

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4770. Facilitating Interpersonal Relationships. (3-0-3)** A course to develop skills in interpersonal relationships and personal understanding.
- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

- 4800. Studies in Education. (1-0-1) On demand.** Problems in Education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4990. Measurement and Evaluation. (3-0-3)** Nature and use of standardized and teacher-made tests. Selection, administration, and use. Prerequisite: Eight semester hours in education and psychology.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5400. Advanced Educational Psychology. (3)** Theories of learning; transfer of functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices. Prerequisite: Eight semester hours in education and psychology.
- 5520. Understanding the Individual. (3)** Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality. Prerequisite: Eight semester hours in education and psychology. Credit applicable to the requirements for the degree M.S. in Ed.
- 5700. Psycho-Social Development in Childhood. (3)** A discussion of psychological and cultural forces which shape the behavior patterns of the growing child. Prerequisite: Eight semester hours in education and psychology.
- 5710. Psycho-Social Development of the Adolescent and Young Adult. (3)** A discussion of psychological and cultural forces which shape the behavior patterns of the maturing individual. Prerequisite: Eight semester hours in education and psychology.
- 5740. Personality Dynamics. (3)** A study of the nature of personality and of various theories of personality. Prerequisite: Eight semester hours of education and psychology.
- 5960. Consultation Skills and Organizational Development. (3)** A study of professional level consultation and theory, research, and skills designed to prepare counselors, administrators, psychologists, and management personnel for entry into consultation functions with faculties, administrative staff, work force, and management systems. Prerequisite: Permission of the department chairperson.
- 6440. Statistics in Education and Psychology. (3)** Fundamentals of statistics and their application. Prerequisite: Eight semester hours in education and psychology.
- 6780. Theories of Aptitudes and Abilities. (3)** A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior. Prerequisite: Educational Guidance 5920 or permission of the department chairperson.

### ELEMENTARY EDUCATION

The purpose of this program of advanced studies is to further the professional abilities and scholarly preparation of teachers at levels ranging from preschool through junior high school. The preparation of master teachers for classroom teaching and for



other positions of leadership in elementary, middle school and junior high school education is among the department's highest goals.

Degree offered: M.S. in Ed. Major: Elementary Education

**Accreditation:** National Council for Accreditation of Teacher Education and North Central Association.

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), MAT score.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as for Graduate School (see page 18) for thesis or non-thesis option and M.S. in Ed. requirements (see page 35), including a minimum of 12 semester hours from EIU Elementary Education courses and a comprehensive oral exam in the final term.

#### Requirements for Degrees:

The course of study consists of 30 semester hours of course credit with a thesis requirement, or 32 semester hours for programs without a thesis. The program is designed to embrace two broad groups of courses:

I Basic courses in Education (These courses provide a background in fundamental educational theory).

#### II Major Field

The remainder of the program is devoted to the major field of Elementary Education with opportunities for study in curricular areas such as reading, language arts, mathematics, science, and social studies. Student may choose courses according to individual needs, professional interests, and teaching level. Courses in reading may be selected which will fulfill the Illinois Certification requirements for reading specialists and meet the standards of the International Reading Association.

Evening classes, off-campus classes, summer sessions and independent study arrangements are offered permitting students to pursue a graduate degree while meeting other personal and professional commitments.

#### Program of Studies

##### I: Basic Courses in Education

Selected from:

- EDF 5500. Curriculum Development
- EDF 5510. Social Foundation of Education
- EDP 5520. Understanding the Individual
- EDF 5530. Philosophy of Education
- EDF 5540. History of Educational Thought ..... 8-9 s.h.

##### II: Major Field

Specified requirements:

- ELE 5260, Advanced Developmental Reading, **or**
- JHE 5270, Reading Instruction in the Junior and Senior High School ..... 3 s.h.

- ELE 5000, Introduction to Research in Elementary Education ..... 3 s.h.

Select from:

- ELE 5640, Teaching and Supervision of Social Studies in Elementary Schools
- ELE 5650, Language Arts in the Elementary School
- ELE 5660, Science Curriculum in the Elementary School

MAT 5400, The Teaching of Mathematics in

Grades K-6 ..... 6 s.h.

Additional prescribed courses ..... 9-12 s.h.

TOTAL ..... 30-32 s.h.

**Graduate Assistantships** are available. Contact Department Chairperson, Elementary and Junior High School Education, Room 224, Buzzard Education Bldg., EIU. Phone: (217) 581-5728.

#### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4775. Language and Language Arts in Early Childhood. (3-0-3)** Normal language development in the young child. Techniques for specific language arts, skills in pre-school and primary teaching. Assessment of pupil growth and achievement in language.
- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.

#### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000. Introduction to Research in Elementary Education. (3)** Provides experiences in defining problems and in using research techniques in writing, interpreting, and evaluating research in elementary education. Prerequisite: Eight semester hours in education and psychology.
- 5260. Advanced Developmental Reading. (3)** A study of the nature of reading instruction in the elementary school; approaches, goals, materials, techniques, and evaluation procedures. Prerequisite: Elementary Education 3280 or equivalent.
- 5280. Guiding Reading Experience for the Elderly. (3)** Instruction in methods of promoting literacy among the elderly under-educated and guiding leisure-recreational reading experiences for senior citizens.
- 5490. Special Educational Problems. (1-3) On demand.** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of a significant nature. Prerequisite: Permission of chairperson of the department. May be repeated for a total of six semester hours credit.

- 5570. Early Childhood Education. (3)** Consideration given to each segment of the learning continuum (ages 3½ to 8) including curriculum design, articulation, evaluation, and administration. Prerequisite: Eight semester hours in education and psychology.
- 5580. Child Study for the Elementary School Teacher. (3)** Factors influencing behavior of the elementary school child. Techniques to secure and use data to improve classroom teaching. Prerequisites: Elementary Education 2320 or equivalent. Eight semester hours in education and psychology.
- 5600. Diagnosis of Reading Problems. (3)** A study of the types and causes of reading difficulty; approaches to diagnosis for teachers, clinicians, and supervisors. Prerequisite: Eight semester hours in education and psychology, including Elementary Education 3280 or equivalent.
- 5610. Remediation of Reading Problems. (3)** Strategies and materials for remediation of reading problems for teachers, clinicians, and supervisors. Prerequisite: Elementary Education 5600 or equivalent; may be taken concurrently with Elementary Education 5620.
- 5620. Remedial Reading Practicum. (3)** Supervised practice in diagnosing, treating, and reporting on cases of reading disability. Prerequisites: Elementary Education 5260, 5600, 5610, or equivalent. May be taken concurrently with Elementary Education 5610. May be taken twice for credit.
- 5630. Supervision and Curriculum in Reading. (3)** A study of the total school program for reading instruction; and analysis of the role of the reading supervisor or consultant. Prerequisite: Six semester hours in reading instruction.
- 5640. Teaching and Supervision of Social Studies in Elementary Schools. (3)** A study of the objectives, content, materials, and techniques used in organizing, supervising, and improving the social studies program.
- 5650. Language Arts in the Elementary School. (3)** A critical analysis of language arts instruction with emphasis on the organization of the program, content, materials, and procedures. Prerequisite: Eight semester hours in education and psychology.
- 5660. Science Curriculum in the Elementary School. (3)** Scope and sequence of the elementary science curriculum; new experimental curricula; selection of materials and equipment. Prerequisites: Six semester hours of science; Elementary Education 3290 or permission of the department chairperson.
- 5700. Seminar in Elementary Education. (1-3)** Intensive study of important contemporary issues, problems, developments and trends in elementary education. A maximum of six semester hours may be earned in 5700 or 5950 or 5990; however, a maximum of nine semester hours may be earned in a combination of 5700, 5950, and 5990.
- 5950. Thesis. (3 to 6) On demand. Note:** A maximum of nine semester hours may be earned in a combination to 5950, 5700, and 5990.
- 5990. Independent Study. (1 to 6)** Intended to permit a student to pursue more intensively various aspects of the area of his/her special interest. Prerequisite: Permission of the department chairperson. *Note:* A maximum of nine semester hours may be earned in a combination 5990, 5950, and 5700.

## ENGLISH

Elective courses in the graduate English program accommodate students with an interest in either British or American literature. Limited credit for approved study abroad may be earned.

Degree offered: M.A.

Major: English

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General) required. Subject English recommended.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School prior to completion of twelve semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as the Graduate School (see page 18).

**Requirements for Degrees:** Each graduate program is designed to meet individual student interests. The program is subject to the approval of the department. A maximum of nine semester hours may be selected from courses numbered 4750-4999, and a maximum of nine semester hours may be earned in a combination of 5950, 5990, and 5997.

**Graduate Assistantships** are available. Contact department chairperson or graduate English coordinator, 308 Coleman Hall, EIU. Phone: (217) 581-2428 or 581-6122.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Studies in Black Literature. (3-0-3)** Study in depth of various genres, movements, periods, and major writers in black literature. Only one genre, movement, or period or only two or three major writers will be studied during any semester. Topics to be announced. May be taken as many as three times with permission of the department chairperson and Dean, College of Arts and Sciences.
- 4760. Writing for the Professions. (3-0-3)** Intensive application of principles of technical writing for professional publication and communication. Designed especially to serve the needs of pre-professional and graduate students.
- 4762. Poetry Writing. (3-0-3)** Extensive practice in the writing and revising of poetry, with an emphasis on the development of the student's individual style. May be taken twice with permission of the department chairperson and Dean, College of Arts and Sciences.
- 4763. Fiction Writing. (3-0-3)** Extensive practice in the writing and revising of prose fiction, with a dual emphasis on the acquisition of editorial skills and on the development of the student's personal style. Each student will have the option of writing several short stories or one novella. May be taken twice with permission of the department chairperson and Dean, College of Arts and Sciences.
- 4764. Play Writing. (3-0-3)** This course provides advanced practice and instruction in dramatic writing. Though the course will review the basic elements common to all dramatic writing, it will allow the students to concentrate on the media of their choice: radio, theatre, TV, or film. May be taken twice with permission of the department chairperson and Dean, College of Arts and Sciences.
- 4775. Studies in Literary Criticism. (3-0-3)** Basic principles of evaluating the standard literary genres, or tenets of a specific school of criticism, or the examination of major aesthetic questions. Topics to be announced. May be

taken twice with permission of the department chairperson and Dean, College of Arts and Sciences.

- 4901. History of the English Language. (3-0-3)** Historical, geographic, and social dialects of English.
- 4905. Studies in Children's Literature. (3-0-3) On demand.** Studies in depth of some aspect of children's literature. Topics to be announced. May be taken twice with permission of the department chairperson and the Dean, College of Arts and Sciences.
- 4906. Problems in the Teaching of English. (3-0-3) On demand.** Advanced methods course on various topics, such as the teaching of composition, the teaching of literature, the teaching of language. Topics to be announced. May be taken twice with permission of the department chairperson and Dean, College of Arts and Sciences.
- 4950. Literary History and Bibliography. (3-0-3)** A historical study of British and American literary periods, schools, figures, and genres; and a basic introduction to research and bibliography.

## GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000. Studies in Old and Middle English Literature. (4)** A study of major figures or genres in English literature from the Anglo-Saxon period through the fifteenth century, with some attention given to language changes. The topic will vary from semester to semester.
- 5002. Studies in Renaissance Literature. (4)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
- 5003. Studies in Seventeenth Century British Literature. (4)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
- 5004. Studies in Restoration and Eighteenth Century British Literature. (4)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
- 5005. Studies in Nineteenth Century British Literature. (4)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
- 5006. Studies in Twentieth Century British Literature. (4)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
- 5008. Studies in Colonial American Literature. (4)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
- 5009. Studies in Nineteenth Century American Literature. (4)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.

- 5010. Studies in Twentieth Century American Literature. (4)** A study of some thematic preoccupation, literary movement, major figure(s), or genre connected with the period. The topic will vary from semester to semester.
- 5061. Special Topics in Language and Literature. (4)** Special topics in language and literature not ordinarily treated in standard courses. The topic will vary from semester to semester.
- 5950. Thesis. (3 to 6)** Enrollment for more than three semester hours requires permission of the department chairperson and the director of graduate studies in English. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and/or 5990 and/or 5997.
- 5990. Independent Study. (1 to 6)** Advanced study of a topic selected by the student, subject to the approval of his/her advisor. Enrollment for more than three semester hours requires permission of the department chairperson and the director of graduate studies in English. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and/or 5950 and/or 5997.
- 5997. Study Abroad. (3 to 6)** Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

## ENVIRONMENTAL BIOLOGY

The graduate program in Environmental Biology is designed for advanced work in ecologically (environmentally) oriented fields of study in biological science and related areas. In addition to on-campus facilities, a large number of outdoor facilities (state parks, nature preserves, local streams, rivers, lake and watersheds) provide opportunities for environmental studies.

Degree offered: M.S.

Major: Environmental Biology

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General and Subject scores), Environmental Geology Information form, and three letters of recommendation from persons familiar with the applicant's academic ability must be filed with the Environmental Biology Graduate Committee. Applicants should have a background in the biological sciences and a 2.6 grade point average ( $A = 4.0$ ) in courses in biological sciences over the last six quarters or four semesters of study. Applicants must have one year of college chemistry (a course in organic chemistry is strongly recommended). Students admitted to the program will take a qualifying examination during their first term of study to identify possible deficiencies in particular areas of undergraduate biology. Students may be required to remedy undergraduate deficiencies by taking courses which do not count toward the graduate degree.

**Graduate Assistantships:** Teaching Assistantships are available. In addition, assistantships that are externally funded and research assistantships may be available. Contact the Chairperson, Environmental Biology Graduate Committee, Life Science Bldg., EIU.

**Graduation Requirements:** Same as for Graduate School (see page 18).

**Requirements for Degrees:**

Environmental Biology 5080 (Internship) or 5950 (Thesis) .....	6 s.h.
Environmental Biology 5150 or Zoology 5150 or Botany 4990 (Seminar) (enroll twice) .....	2 s.h.
Environmental Biology 5100 (Introduction to Graduate Studies and Research) .....	2 s.h.
Botany electives (minimum) .....	6 s.h.
Zoology electives (minimum) .....	6 s.h.
Other electives (Botany, Environmental Biology, Zoology, Chemistry, Physics, etc.) .....	0-8 s.h.
<b>TOTAL</b> .....	<b>30 s.h.</b>

Students are initially assigned to the Chairperson, Environmental Biology Graduate Committee for academic advisement. A permanent advisor should be selected within the first term in residence. In consultation with the advisor, the student will select at least three additional graduate faculty for an advisory committee comprising at least one zoologist and one botanist (including the advisor). A study plan approved by the student's advisory committee must be filed with the EVB Graduate Committee and the Graduate School Office prior to the completion of 12 semester hours of credit which count toward the graduate degree. (Also see page 17).

**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

(See also Botany and Zoology course listings.)

- 4750. (Life Science 4750). Biometrics. (2-2-3)** Methods of quantitative analysis of biological data at the population level. Prerequisites: Eighteen semester hours in life science, botany and/or zoology, including Life Science 3200. May be substituted for a three-semester-hour elective in botany or zoology in completing the requirements for a botany or zoology major.
- 4903. (Life Science 4903). Study of Biotic Communities. (2-Arr.-3)** The study of selected biotic communities in Illinois and surrounding states. Prerequisites: Major in botany, zoology, or environmental biology; six semester hours in botany and six semester hours in zoology, including Botany 4811 or Zoology 4800; or permission of the instructor.

**GRADUATE COURSES**

(See also Botany and Zoology course listings.)

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5080. (Life Science 5080). Graduate Internship in Environmental Biology. (6)** Employment experience in one or more phases of environmental work for one semester with an agency or firm approved by the Chairperson of the Environmental Biology Advisement Committee. A written report of the internship experience is required. A brief research study is also required. Prerequisites: At least 20 semester hours of graduate credit in Environmental Biology program and approval of the Chairperson of the Environmental Biology Advisement Committee.
- 5100. (Life Science 5100). Introduction to Graduate Study and Research. (2)** The principles of biological research, including review of literature, defining and organizing problems, and effective presentation of data. Required for all beginning graduate students in environmental biology or zoology, to be

taken the first fall term of graduate study. Credit not given for both Environmental Biology 5100 and Zoology 5100.

- 5150. (Life Science 5150). Advanced Graduate Seminar. (1)** Seminar in current environmental literature. Required of all Environmental Biology graduate students. May be repeated, with maximum of three hours credit applied to graduate program.
- 5950. (Life Science 5950). Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. (Life Science 5990). Independent Study. (1 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

**FINANCE**

(See sections on M.B.A. and Business Administration.)

**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

- 4820. International Finance. (3-0-3)** Financial problems of multinational corporations including the theory of capital movements, foreign exchange markets, concepts of the balance of payments mechanism, trade policy, and the functioning of the international monetary system. Prerequisites: Finance 3710, 3720, Economics 3860.
- 4830. Current Problems in Finance. (3-0-3)** A survey of current literature in finance and business with a seminar approach in discussing present problems, topics, and developments. Prerequisites: Finance 3710, 3730.
- 4850. Energy Finance Incentives. (3-0-3)** A survey of literature and other materials pertinent to public and private financing of national and regional energy capabilities as well as consideration of alternative governmental policies and incentives involved. Prerequisite: Junior standing.

**FINE ARTS**

(See Related Arts.)

The interdisciplinary format of the program provides opportunity for survey and in-depth experiences relating the arts through structured and elective study in Art, English, Music, Theatre Arts and interdisciplinary Fine Arts courses. Aesthetic literacy is a focal emphasis of the program — whether used to extend and enrich the educational experiences of others or for personal self development.

Degree offered: M.A.

Major: Related Arts

**Admission Requirements:** Degree status admission to the Graduate School including: 1) GRE (General) score; 2) an undergraduate major or minor in Art, English, Music and/or Theatre Arts; 3) documentary evidence of achievement in major discipline.

**Study Plan Approval:** The Study Plan shall be approved by the appropriate Related Arts personnel within the School of Fine Arts and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduation degree.

**Graduation Requirements:** Same as for Graduate School. To satisfy the thesis requirement, students will relate two or more arts areas in a thesis or in a paper describing a completed creative arts project or an internship.

**Requirements for Degrees:**

Related Arts (M.A.)

Major: (Related Arts)

Fine Arts 5000, 5001, 5950 ..... 9-12 s.h.

A minimum of two courses from each of two of the following areas, including Art 5900 or Music 5100:

a. Art 4765, 4790, 5400, 5871, 5900, 5990

b. English 5002, 5004, 5005, 5006, 5009, 5010

c. Music 4870, 5100, 5170, 5880, 5990 ..... 10-14 s.h.

A minimum of one course from Theatre Arts 4810 and

5990 or area not chosen from areas a, b, and c, listed above ..... 2-4 s.h.

Electives related to paper, creative arts project, or internship

(approved by advisor) ..... 3-6 s.h.

\*Total ..... minimum of 30 s.h.

\*including no more than 10 s.h. of courses numbered 4750-4999.

**Graduate Assistantships** are available. Contact the Graduate Coordinator of the Related Arts program, Fine Arts Center, FAM 219, EIU. Phone: (217) 581-5221.

**GRADUATE COURSES**

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

**5000. Aesthetic Studies. (3)** The nature of art with emphasis on contemporary critical theories. Reading assignments; two classes per week in lecture/discussion and one class per week in seminar. Prerequisite: Graduate standing in the School of Fine Arts or permission of the instructor.

**5001. Arts in Society. (3)** The nature of the arts in society and their relationships to public policy, and to funding and management. Two hours per week in lecture/discussion and one hour per week for round-table seminar, student presentations of projects and research findings, and problem-centered discussions. Prerequisite: Graduate standing in the School of Fine Arts or permission of the instructor.

**5950. Thesis. (3 to 6)**

**FOREIGN LANGUAGE – FRENCH****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

**4760. French Drama. (3-0-3)** French drama from the fifteenth century to the present.

**4770. French Poetry. (3-0-3)** Selected authors from Villon to the present.

**FOREIGN LANGUAGE – GERMAN****COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

**4750. Introduction to German Stylistics. (3-0-3)** Elements of prose composition: form, content, style and meaning. Prerequisite: Three years of college German and approval of the Dean, College of Arts and Sciences.

**4760. Goethe. (3-0-3)**

**4770. Survey of German Literature I. (3-0-3)** Survey of German literature from the seventeenth century. Prerequisite: Three years of college German or permission of the department chairperson.

**4780. Survey of German Literature II. (3-0-3)** Survey of German literature from the seventeenth into the twentieth century. Prerequisite: Three years of college German or permission of the department chairperson.

**GERONTOLOGY**

The purpose of this multi-disciplinary program is to provide in-depth study in gerontology for both potential professionals and current practitioners working in the field. Cooperating college and schools include the College of Arts and Sciences, the School of Education, the School of Health, Physical Education and Recreation, and the School of Home Economics.

Degree offered: M.A.

Major: Gerontology

**Admission Requirements:** Degree status admission to Graduate School (see page 15), with GRE (General) score or MAT.

**Study Plan Approval:** While the responsibility for approval of the study plan for the Master of Arts in Gerontology degree rests with the M.A. in Gerontology Program Committee, the University has established certain basic requirements that must be met. (See page 17.) The study plan shall be approved and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree.

**Program of Studies:** The courses for the degree must total at least thirty semester hours for programs including the thesis and at least thirty-two semester hours for programs without the thesis. All students enrolled in this program must satisfy the basic core requirements listed below:

**Thesis:** Three to six semester hours of the major may be used for a thesis. The student's advisor may act as advisor for the thesis or another faculty member may, with the consent of the Graduate School, be designated to take this responsibility.

The grade of "E" will be recorded until the completed thesis is on deposit on the library. The completed thesis will be graded either "P" or "F".

**Certification:** Certification by the M.A. in Gerontology Committee that the student has satisfactorily demonstrated a comprehensive knowledge of the area in which the degree is to be conferred is required. Such certification must be filed in the Graduate School office at least one week prior to the final day of the term in which graduation is anticipated.

**Graduate Assistantships** are available. Contact the Coordinator of the Gerontology Program in the School of Home Economics, 109 Applied Arts Center, EIU. Phone: (217) 581-6076.

**HEALTH EDUCATION**

(See sections on M.A. — M.S. and Physical Education courses.)

**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

**4760. Public Health Statistics and Data Analysis. (3-0-3)** A review of mathematical principles and elementary statistics as related to an analysis of public health statistics. Prerequisite: Health Education 2270 or permission of instructor.

- 4800. Alcohol, Narcotics, Hallucinogenic Drugs: Science and Society. (3-0-3)** The use and abuse of drugs.
- 4900. Multi-Phase Driver Education. (2-2-3)** The five-phase driver education curriculum. Actual practice with multi-media equipment-simulators, student response systems and the multi-car range. Prerequisite: Health Education 3310 or concurrent enrollment or permission of the instructor.
- 4913. Organization and Administration of Cooperative Occupational Education. (3-0-3)** Introduction to cooperative education programs, program needs, resources, constraints, public relations, and policy development are analyzed.
- 4923. Coordination Techniques for Cooperative Occupational Education. (3-0-3)** Methods and techniques for preparation of teacher coordinators. Student selection, training agreements, training plans, legal requirements, related class management, individualized instruction, and program evaluation are emphasized.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5010. Current Health Problems. (3)** An epidemiological investigation of the cause, nature, extent, and programming of current health problems.
- 5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5090. Seminar in Occupational Education. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5990. Independent Study. (1 to 6)** An individual study under faculty supervision of pertinent literature, research, programs or other sources related to selected topic in health education. Prerequisite: Permission of the department chairperson.

## HISTORY

The graduate program in History stresses reading and writing in both American and European history, and prepares students for teaching, research, and further graduate study. The program in Historical Administration stresses preparation for work in historical museums, archives, and related organizations.

Degree offered: M.A.

Majors: History

Historical Administration

**Admission Requirements:** Degree status admission to Graduate School (see page 15), with either GRE (General) or MAT score. Historical Administration students should request an application from the History Department coordinator and must submit a statement of professional goals and two confidential letters of recommendation.

**Study Plan Approval:** The Study Plan should be approved by the department and filed in the Graduate School Office prior to the completion of 12 graduate credits which count toward the graduate degree (see page 17).

**Graduation Requirements:** Same as for Graduate School (see page 18). In addition, all candidates must also take a written and oral comprehensive examination upon completion of all course work, and place on file in the department a graded research paper and a bibliography of books read during their graduate studies.

**Graduate Assistantships** are available. Contact Department Chairperson, 224 Coleman Hall, EIU. Phone: (217) 581-3310.

### Requirements for Degrees:

HISTORY (M.A. with thesis)

Approved History courses numbered 4750 or above*	24 s.h.
History 5950	6 s.h.
TOTAL	30 s.h.

HISTORY (M.A. without thesis)

Approved History courses numbered 4750 or above*	32 s.h.
TOTAL	32 s.h.

HISTORY (M.A. in Historical Administration)

Informational Services and Technology 5220	3 s.h.
History 5005, 5010, 5020, 5030, 5040, 5060, 5080, 5090, 5110	20 s.h.
Approved History courses numbered 4750 or above	9 s.h.
History 5000 or 5001	6-9 s.h.
TOTAL	38-41 s.h.

\*No more than 15 s.h. may be in courses numbered below 5000. If a student can demonstrate that courses outside of History are necessary to his or her goals, the Chairperson may approve a limited number of hours outside of History.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

**4775 (3300). Selected Topics in History. (2-0-2 or 3-0-3 depending upon topic taken)** Study of historical topics not typically presented in standard courses. Topics to be announced. May be taken twice with permission of the department chairperson. Prerequisite: Three semester hours in history.

**4805 (3710). The French Revolution and Napoleon. (3-0-3)** A study of the French Revolution and the concept of the revolution in general.

**4810. Europe in the Nineteenth Century. (3-0-3)** A study of nationalism, and other important "isms" of the century.



- 4815 (3800). Modern Germany. (3-0-3)** A political, social, and cultural history of Germany since 1815 with emphasis on the 1848 Revolution, the German Empire, the World Wars, and divided Germany.
- 4820. The World in the Twentieth Century. (3-0-3)** The apex and decline of European hegemony in the age of the world wars, class war, cold war and totalitarianism.
- 4830. Eastern Europe from World War I to the Present. (3-0-3)** Eastern Europe from World War I to the present.
- 4835 (3740). History of World War II. (3-0-3)** A study of the background to the war, campaigns in Europe and the Pacific, and occupation policies.
- 4840. Europe Since 1945. (3-0-3)** A political, social and cultural history of divided Europe since World War II.
- 4900. Colonial America from Discovery through Revolution. (3-0-3)** The development of American colonial institutions and their culmination in the world's first modern revolution.
- 4905 (3080). Diplomatic History of the U.S. (3-0-3)** A survey of American diplomacy from the American Revolution to the present time.
- 4910. The Foundation of the American Constitutional and Political Systems. (3-0-3)** Study of United States governmental institutions from the Confederation to the days of Jackson.
- 4950. The Emergence of Industrial America. (3-0-3)** An intensive study of the transformation of the United States from a largely agrarian society to an urban and industrial power between the years 1870 and 1920.
- 4960. Contemporary America. (3-0-3)** Study of major issues affecting the present generation with an emphasis upon historical causes and parallels.
- 4970 (3030). History of Ideas in America. (3-0-3)** The development of American concepts from first settlement to the present.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000. Internship in Historical Administration. (Arr.-Arr.-9)** A semester's experience as an intern in a historical library, historical society, museum, archive, restoration project, or historical agency or government. Prerequisite: Permission of the department chairperson and acceptance of the student by an appropriate historical agency. Credit not allowed for both 5000 and 5001, or for both 5000 and 5950.
- 5001. Internship in Historical Administration. (Arr.-Arr.-6)** A summer term's experience as an intern in a historical library, historical society, museum, archive, restoration projects, or historical agency of government. Prerequisites: Permission of the department chairperson and acceptance of the student by an appropriate historical agency. Credit not allowed for both 5001 and 5000, or for both 5001 and 5950.
- 5005. Introduction to Historical Museum Studies. (1)** A survey of museum types and functions, the development of history museums and their collections, and an overview of ethical issues facing the profession. Prerequisite: Permission of the instructor.

- 5010. Seminar in Historical Administration. (3)** Intensive study and research into special topics relating to the management of historical sites, museums, and archives. Prerequisite: Permission of the instructor.
- 5020. Seminar in Interpretation. (3)** The purpose, content, and communication process involved in interpreting history, by means of artifacts, building and cultural patterns. Prerequisite: Permission of the instructor.
- 5030. Seminar in Archival Methods and Editorial Practices. (3)** Study of the purpose, content, and organization or archival collections and of editorial techniques involved with historical materials. Prerequisite: Permission of the instructor.
- 5040. Seminar in Oral History. (2)** Applied study of the techniques of gathering and editing oral history. Prerequisite: Permission of the instructor.
- 5060. Historic Preservation. (2)** An introduction to European and American efforts to preserve historically significant portions of the built environment. The U.S. movement will be traced from the preservation of Mt. Vernon in the 1850's to the present-day use of the National Register of Historic Places. Special emphasis will be given to Illinois. Prerequisite: Permission of the instructor.
- 5080. Local History Research. (2)** An investigation of the resources available in a local community for history research which can be utilized by history teachers and museum employees. These areas may include public and private records and manuscripts, visual documents, newspapers, contemporary writings, and cemeteries. Prerequisite: Permission of the instructor.
- 5090. Care and Management of Historical Artifacts. (2)** An introduction to museum registration systems; a survey of various artifact groups collected by history museums; and investigation of the environmental needs which must be considered when handling, storing, and exhibiting these artifacts. Prerequisite: Permission of the instructor.
- 5110. History Museum Exhibits. (2)** A study of the role, function and development of history museum exhibits as a part of the interpretation process. Students will participate in the installation of a temporary exhibit at the Greenwood School Museum which will include research, script and label writing, exhibit design and construction. Prerequisite: Permission of the instructor.

*Note:* Courses numbered 5160 through 5900 may be repeated for credit with the approval of the department chairperson.

- 5160. Seminar in American History. (1-3)** Intensive study of special topics in American history to be determined by the instructor. May be repeated. Prerequisite: Permission of the instructor.
- 5310. Seminar in American Social, Intellectual, or Cultural History. (3)** Lectures, reading, and research on topics to be selected by the instructor. May be repeated. Prerequisite: Permission of the instructor.
- 5400. Seminar in European History. (1-3)** Intensive study in special topics in European history to be determined by the instructor. May be repeated. Prerequisite: Permission of the instructor.
- 5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and/or 5990 and/or 5997.

- 5990. Independent Study. (1 to 6)** Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and/or 5950 and/or 5997.
- 5997. Study Abroad. (3 to 6)** Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

## HOME ECONOMICS

The School of Home Economics offers a graduate program which accommodates students with an interest in human development and family life, home economics education, or foods and nutrition.

Degree offered: M.S.

Options: Home Economics  
Dietetics

**Admission Requirements:** Degree status admission to Graduate School (see page 15), GRE (General) or MAT score.

**Study Plan Approval:** The study plan shall be approved by the school and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree (see page 17).

**Graduation Requirements:** Same as Graduate School requirements (see page 18).

## HOME ECONOMICS

**Requirements for Degrees:** Each program is designed to meet individual student needs. Students may select an area of interest and develop a study plan with the approval of an advisor. Courses may be selected from such topics as human development and family life, home economics education, and foods and nutrition. Thirty semester hours with thesis\* or 32 semester hours without thesis are required.

**Core Requirements:** The following graduate level home economics courses are required:

- HEC 5460. Current Issues and Trends
- HEC 5470. Evaluation in Home Economics
- HEC 5900. Research Methods

**Other Requirements:** In addition to home economics core courses, 21-23 semester hours of electives are to be selected by the student **with prior approval of the advisor**. Selection of electives will depend on background, interest, and needs of the student.

## DIETETICS

**Requirements for Degrees:** Upon completion of this degree, graduates should be eligible to write the dietetic registration examination. Thirty semester hours with thesis\* or 32 semester hours without thesis are required.

**Core Requirements:** The following graduate level home economics courses are required:

- HEC 5460. Current Issues and Trends
- HEC 5470. Evaluation in Home Economics
- HEC 5900. Research Methods

\*Students writing a thesis will need an appropriate statistics course.

## Other Requirements:

- HEC 5150. Community Nutrition
- HEC 5152. Readings in Nutrition Research
- HEC 5153. Nutrition in the Life Cycle
- HEC 5370. Internship (6 s.h.)
- HEC 5990. Independent Study (2 s.h.)
- or
- \*HEC 5950. Thesis (3 s.h.)

An additional 4 to 6 semester hours of electives are to be selected by the student with prior approval of the advisor. Additional dietetic clinical experience to total 1000 clock hours is required.

*Note:* Students must meet American Dietetic Association undergraduate requirements.

\*Students writing a thesis will need an appropriate statistics course.

**Graduate Assistantships** are available. Contact the School of Home Economics Graduate Coordinator, Room 205, AAC Bldg., EIU. Phone: (217) 581-3223.

## COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Advanced Human Nutrition. (3-0-3)** Emphasis on biochemical function of essential nutrients in the study of human nutrition. Prerequisites: Chemistry 3450, Home Economics 2150.
- 4751. Diet Therapy. (3-0-3)** A study of the therapeutic care of a patient through the prescription of specific diets in relation to disease syndromes. Prerequisite: Home Economics 4750.
- 4770. Consumer Decisions in the Marketplace. (3-0-3)** Use of personal and family resources to improve consumer decision-making including discussion of government and business influences. Prerequisite: Home Economics 3300 or permission of the instructor.
- 4820. Death and Dying. (3-0-3)** Issues of death and dying and their implications for individuals and their families.
- 4840. The Disadvantaged Family. (3-0-3)** Low income and minority group families and their values, needs, problems and practices. Prerequisite: Home Economics 2800 or permission of the instructor.
- 4845. The Family in Crisis. (3-0-3)** In-depth study of major crisis situations faced by families. Some emphasis on resources that offer help to families faced with crisis situations. Prerequisite: Home Economics 2800 or permission of the instructor.
- 4846. Aging and the Family. (3-0-3)** Aging as a phase in the family developmental process and the consequent effect. Prerequisite: Home Economics 2800 or permission of the instructor.
- 4851. Infant Development. (2-2-3)** Study of current theories and research on infant and toddler development and care. Application of knowledge through supervised observation and participation in Home Economics Infant Development Laboratory.
- 4854. Parent-Child Study. (3-0-3)** Detailed study of parent-child interaction and in-depth study of parent education programs, methodology and techniques. Observation required.

- 4859. Administration of Child Care Programs. (3-0-3)** Organization, administration, curricula, facilities, licensing, parent involvement/education, and types of child care programs are presented. Observation required.
- 4913. Organization and Administration of Cooperative Occupational Education. (3-0-3)** Introduction to cooperative education programs, program needs, resources, constraints, public relations, and policy development are analyzed.
- 4923. Coordination Techniques for Cooperative Occupational Education. (3-0-3)** Methods and techniques for preparation of teacher coordinators. Student selection, training agreements, training plans, legal requirements, related class management, individualized instruction, and program evaluation are emphasized.
- 4940. Food Systems Management. (2-2-3)** Organization and administration of food service systems, personnel management, cost control, food purchasing, facility and equipment planning. Home Economics 4140 or permission of the instructor.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5090. Seminar in Occupational Education. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.
- 5150. Community Nutrition. (3)** A study of the problems of nutrition that affect large numbers of people and that are solved through group action.
- 5151. Nutrition for Older People. (1)** Changes in aging as related to nutrition; dietary needs and diet planning.

- 5152. Readings in Nutrition Research. (3)** In-depth study and application of nutrition knowledge and research. Prerequisites: Home Economics 4750, 5900 or permission of instructor.
- 5153. Nutrition in the Life Cycle. (3)** Nutrition as a factor in human growth and development throughout the life cycle. Prerequisites: Home Economics 4750, Zoology 2999, or permission of instructor.
- 5238. Seminar in Home Economics. (3)** The study of selected subject matter areas in the field of home economics. May be taken twice for credit. Prerequisite: Permission of the instructor.
- 5301. Consumer and Management Problems of Older People. (3)** To develop competency in assisting people in the later stages of the family life cycle in the areas of consumer and management problems. Prerequisite: Home Economics 4846 or permission of the instructor. A course in consumer education is highly recommended.
- 5370. Internship. (3 or 6)** An individualized planned work experience in an agency or institution appropriate to the student's area of specialization. A maximum of six semester hours may be earned.
- 5400. Curriculum Development in Home Economics. (3)** Application of philosophy and principles of curriculum development in home economics.
- 5450. Supervision in Home Economics. (2)** Principles and techniques of supervision in home economics.
- 5460. Current Issues and Trends. (3)** Seminar emphasizing current and emerging problems, issues, trends, and developments in home economics.
- 5470. Evaluation in Home Economics. (3)** The evaluation process, critique and design of evaluation systems and instruments.
- 5750. Special Problems in Gerontology. (1)** An in-depth study of specific personal or family related problem or issue common to older person. Prerequisite: Home Economics 4846 or permission of the instructor. May be repeated for a maximum of three semester hours.
- 5850. Readings in Human Development and Family Life. (3)** In-depth study of selected Human Development and Family Life theories and research. Application of knowledge to current issues and concerns related to marriage, parenting, families and children.
- 5852. Adolescence and the Family. (3)** Study of adolescent development and relationships with special emphasis on the family.
- 5900. Research Methods in Home Economics. (3)** Research techniques in writing, interpreting, and evaluating home economics research.
- 5950. Thesis. (3 to 6)** Individual direction of research thesis writing. *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** To offer opportunity and challenge for a student to pursue needed study in the area in which appropriate courses are not being currently offered. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

## INDUSTRIAL TECHNOLOGY

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4943. Manufacturing Management. (3-0-3)** Survey of technical management areas in a manufacturing operation. This course will include but not be limited to a study of production control methods, plant layout, scheduling, inventory control, and other phases of planning, organizing, and controlling a manufacturing operation. Prerequisites: Management 3010 and either Mathematics 2110 or 2351; or permission of the instructor.

## INFORMATION SERVICES AND TECHNOLOGY

Degree offered: M.S. in Ed.

Major: Information Services  
and Technology

**Accreditation:** National Council for Accreditation of Teacher Education and North Central Association.

**Admissions Requirements:** Degree status admission to the Graduate School (see page 15), GRE Aptitude and Advanced test scores.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 17.

### Requirements for Degrees:

#### MASTER OF SCIENCE IN EDUCATION

Foundations: EDF 5500 ..... 3 s.h.

Select a minimum of 5 s.h. from the following:

EDP 5520, EDF 5510, EDF 5530, EDF 5540 ..... 5 s.h.

Major:

Required: IST 5220, 5230 ..... 6 s.h.

Select a minimum of 12 s.h. from the following:

IST 4870, 5200, 5210, 5300, 5360, 6120, 6320 ..... 12 s.h.

Electives including courses from Informational

Services and Technology ..... 6 s.h.

TOTAL ..... 32 s.h.

#### EDUCATIONAL SPECIALIST

Foundations: EDF 5500 ..... 3 s.h.

Select a minimum of 5 s.h. from the following:

EDP 5520, EDF 5510, EDF 5530, EDF 5540 ..... 5 s.h.

Major:

Required: IST 5220, 5230, 6320, 6910 ..... 13 s.h.

Select a minimum of 17 s.h. from the following:

IST 4870, 5200, 5300, 5360, 5890, 6120, 6300 ..... 17 s.h.

Electives including courses from Informational

Services and Technology ..... 26 s.h.

TOTAL ..... 64 s.h.

**Graduation Requirements:** Must meet all requirements of the Graduate School (see page 18).

**Graduate Assistantships** are available for M.S. in Ed. students for Informational Services and Technology majors. Contact Department Chairperson, 221 Buzzard, Information Bldg., EIU. Phone: (217) 581-2826.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. (Library Science 4750). Basic Sources of Information. (3-0-3)** Introduction to general and specialized sources of information: their content, evaluation, and use.
- 4770. (Library Science 4770). Cataloging and Classification of Information. (3-0-3)** This course covers the purpose and function of library catalogs, descriptive cataloging, classification, and subject headings. It includes the development of skills in using cataloging manuals and practice in solving cataloging problems.
- 4850. (Library Science 5860). Computer Systems Applications. (2-2-3).** This course introduces applications of computer systems in instruction. Prerequisite: Completion of an introductory computer course or equivalent experience.
- 4870. (Instructional Media 4870). Communications, Resources and Technology. (2-2-3)** Theory and principles of communication and technology in the use of instructional resources. Includes methods and techniques, equipment operation, and simple production skills.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5200. (Instructional Media 5200). Production I: Instructional Television. (3)** Methods and techniques of television production, direction and operation for classroom utilization.
- 5220. (Instructional Media 5220). Photography I: Print Applications. (3)** Techniques for producing photographic materials for classroom instruction. Emphasis on black and white printing and darkroom techniques.
- 5230. (Instructional Media 5230). Administration and Supervision of Media Programs. (3)** Problems of organizing and supervising media programs in the school, district, county, and college or university.
- 5300. (Library Science 5300). Studies in Children's Materials. (3)** A critical investigation of library materials designed for children. Includes national and international developments.
- 5320. (Library Science 5320). Studies in Adolescent and Young Adult Materials. (3)** Survey of library materials designed for adolescents and young adults. Includes analysis of materials for reading guidance and discussion of national and international developments.
- 5340. (Library Science 4760). Selection of Information Sources and Collection Developments. (3)** Principles and practices related to the selection and acquisition of print and non-print media for library/media centers.
- 5360. (Instructional Media 4880). Production II: Advanced Techniques. (3)** Production of learning resources using advanced graphic and photographic techniques. Emphasis placed on color slides, overhead transparencies, 8 mm movie picture photography, and audio taping for slide/tape production. Prerequisite: Information Services and Technology 4870 or permission of the instructor.

- 5490. (Instructional Media 5490). Special Educational Problems. (1-3) On demand.** Provides the student an opportunity for investigation and analysis of elementary or secondary school problems of significant nature. May be repeated for a total of six semester hours of credit.
- 5710. (Library Science 5710). Resources and Information Services in the Social Sciences. (3)** Intensive study of information sources and services in sociology, geography, psychology, economics, anthropology, history, and political science. Prerequisites: Information Services and Technology 4750 and 5340.
- 5720. (Library Science 5720). Resources and Information Services in the Humanities. (3)** Intensive study of information sources and services in religion, philosophy, music, art, literature, and language. Prerequisites: Information Services and Technology 4750 and 5340.
- 5730. (Library Science 5730). Resources and Information Services in Science and Technology. (3)** Intensive study of information sources in science and technology. Prerequisites: Information Services and Technology 4750 and 5340.
- 5890. (Instructional Media 5890). Seminar in Educational Technology. (3)** The identification, investigation, and analysis of special problems related to the implementation of educational technology in schools. Prerequisites: At least twelve semester hours of Information Services and Technology courses.
- 5950. (Instructional Media 5950). Thesis and Research. (3-6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. (Instructional Media 5990). Independent Study. (1-6)** Permits the student to pursue more intensively various aspects of an area of special interest. Prerequisite: Permission of the department chairperson. *Note:* A maximum of nine semester hours may be earned in a combination of Information Services and Technology 5990 and 5950.
- 6120. (Instructional Media 5210). Designing Mediated Instruction. (3)** Application of systems analysis to the improvement of instruction. Emphasis is placed on the design and development of individualized learning modules.
- 6130. (Instructional Media 5300). Production III: Mediated Programs. (3)** The production of mediated programs for the improvement of instruction. Emphasis placed on individualized learning module. Prerequisites: Information Services and Technology 4870, 5220 or 5360, 6120, or permission of the instructor.
- 6300. (Instructional Media 6300). Photography II: Special Techniques and Applications. (3)** Advanced study of black and white photography, color printing, and darkroom techniques for utilization in education. Prerequisite: Information Services and Technology 5220.
- 6320. (Instructional Media 5310). Communications and Educational Technology. (3)** Examines the theory and role of communications in relation to the responsibilities of the media specialist. Prerequisites: At least twelve semester hours of Information Services and Technology courses.
- 6910. (Instructional Media 6110). Field Experience in Educational Technology. (4)** Supervised clinical experience in the administration of media services programs or subject area of specialization. May include investigative/operational research to identify and solve special problems. Carried out

in the school where the student is employed, or by placement in a media services program acceptable to the instructor.

## JOURNALISM

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Photojournalism: Photoediting and Design. (2-2-3)** Theory and practice of the photoessay, photostory and other extended forms of photojournalism from inception to display. Stresses magazine-style presentation in book, magazine and newspaper form. Prerequisite: Journalism 3001.
- 4760. Publication Design. (3-0-3)** Study and application of advanced editing, typography, graphics, and the design of magazines, newspapers, public relations pieces, advertisements, and yearbooks. Prerequisite: Journalism 3100 or permission of instructor.
- 4800. Supervision of High School Publication. (3-0-3)** Problems for advisors to high school publications; staff recruitment, staff-faculty relationships, production problems, and editorial judgments.
- 4820. Fundamentals of Public Relations. (3-0-3)** Techniques of a positive public relations program, including the process, tools and application. Prerequisite: Journalism 3100 or 3820 or permission of the instructor. Credit not granted for both Speech Communication 4820 and Journalism 4820.
- 4900. Journalism Seminar. (3-0-3)** In-depth study of various topics in journalism. Prerequisite: Journalism 3100 or permission of instructor.
- 4920. Case Studies in Public Relations Problems. (3-0-3)** Public relations case problems in industry, business, labor, education, government social welfare and trade associations; the application of public relations techniques. Prerequisite: Journalism 4820 or permission of the department chairperson. Credit not granted for both Journalism 4920 and Speech Communication 4920.

## JUNIOR HIGH SCHOOL EDUCATION

These courses may be used toward satisfying requirements for M.S. Ed. in Elementary Education.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5270. Reading Instruction in the Junior and Senior High School. (3)** A systematic study of the objectives, methods, materials, and organization of junior and senior high school reading programs. Prerequisite: Eight semester hours in education and psychology.
- 5700. Seminar in Middle/Junior High School Education. (1-3)** Intensive study of important contemporary issues, problems, developments and trends in middle and junior high school education. A maximum of six semester hours may be earned in 5700; a maximum of nine semester hours may be earned in any combination of 5700 and Elementary Education 5950 and 5990.

## MANAGEMENT

(See sections on M.B.A. and Business Administration.)

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Case Problems in Business Law. (3-0-3)** Case problems approach to the various topics in the field of business law. Prerequisites: Management 3470 or the equivalent and permission of the instructor.
- 4813. Energy and Environmental Law. (3-0-3)** A study of the interaction of state and local energy and environmental regulation involving consideration of pertinent laws, policy statements, legislative studies, scholarly treatises, administrative procedures and landmark cases. Prerequisites: Junior standing and Management 2460.
- 4910. Enterprise Development. (3-0-3)** A practical exercise in the development, initiation and management of an enterprise. May also be utilized for the reorganization or expansion of existing firms. Prerequisite: Senior or graduate standing in the School of Business.
- 4920. International Business Policy and Operation. (3-0-3)** Contemporary theories and practices in management of international business firms. Prerequisites: Junior standing and Economics 3860 or permission of the instructor.
- 4930. Energy Policy I: A Holistic Approach to Energy Management. (3-0-3)** Analysis of technological, business, economics, environmental, social and political aspects of energy. Prerequisites: All the core requirements for energy management; senior standing; or permission of the instructor.
- 4940. Energy Policy II: Strategic Planning. (3-0-3)** Integrating analysis and policy determination for organizations with implications of regional, national, and international energy policies utilizing operation research techniques. Prerequisite: Management 4930.
- 4950. Management Consulting and Research. (Arr.-Arr.-3)** Students in this course will be provided with the opportunity to perform consulting service for small business firms in east-central Illinois. Prerequisite: Senior or graduate standing in the School of Business.

## MARKETING

(See sections on M.B.A. and Business Administration.)

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4760. Physical Distribution Management. (3-0-3)** The study of integrated distribution systems, reflecting the transportation principles, economic analysis and marketing management considerations required to effect physical flows of goods from production points through market channel networks to purchaser destinations. Prerequisites: Marketing 3470, 3490, Management 3010 and 2810.
- 4780. Advertising Management. (3-0-3)** Application of the management functions to advertising. Prerequisites: Marketing 3510 and 3720.
- 4860. Marketing Research. (3-0-3)** Nature and scope of marketing research; scientific method and research designs; specific marketing research procedures; research report and follow-up. Problems. Prerequisites: Marketing 3470 and Management 2810 or its equivalent.

- 4875. Retail Management. (3-0-3)** The objective of the course is to provide a framework for analyzing internal and external environment factors which affect the firm's retailing activities. Emphasis is placed on the firm's decisions and policies relating to demand analysis, spatial decisions, merchandise policies, pricing strategy, and promotion activities. Consideration is also given to retain control methods. Prerequisites: Marketing 3490, 3510, and 3720.
- 4876. Product Development and Brand Management. (3)** A study of the process of product planning and development as related to venture management. Prerequisites: Marketing 3490, 3510, and 3720.

## MATHEMATICS

The major in mathematics provides a solid background in basic graduate level mathematics. It prepares students for advanced graduate study, post-secondary teaching or work in industry or government. Elective courses allow specialized study in areas such as pure mathematics, applied mathematics and computer sciences.

The major in Mathematics Education strengthens the professional preparation of junior and senior high school teachers. Special problems courses required by the major allow students to share their experiences and to revitalize their teaching methods.

Degree offered: M.A.

Majors: Mathematics

Mathematics Education

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General) score.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as Graduate School (see page 18).

**Requirements for Degrees:** The requirements for the Master of Arts degree in Mathematics is 34 semester hours (32 if a thesis is written) of graduate level courses as approved by the Graduate Committee of the Mathematics Department. Each program must include MAT 5100 and either MAT 5301 or MAT 5330. If the student did not complete MAT 4760 and MAT 4860 or their equivalents as an undergraduate, they must be included. The program may include up to 8 s.h. of courses in related areas, and it may include no more than 10 s.h. of courses numbered 4750-4999.

The requirements for the Master of Arts degree in Mathematics Education are 32 semester hours (30 semester hours if thesis is written) selected and approved by the Mathematics Department from the following:

At least 8 semester hours from the Basic Courses in Education.

At least 8 semester hours chosen from MAT 4800 and 5635.

At least 6 semester hours of courses selected from MAT 4750-5335.

At least 6 semester hours of MAT 5700 and 4 semester hours of Independent Study.

Two years of teaching experience.

**Graduate Assistantships** are available. Contact Mathematics Graduate Coordinator or department chairperson, Department of Mathematics, 331 Old Main Bldg., EIU. Phone: (217) 581-2028 or 581-2928.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Linear Programming. (3-0-3)** A study of linear inequalities, linear programming problems and the techniques for solving linear programming



problems by the simplex method. Prerequisites: Mathematics 2361; and Mathematics 2550 or 4760.

- 4760. Linear Algebra. (4-0-4)** Vector spaces, linear transformations, and dual spaces, invariant direct sum decompositions, Jordan form, inner product spaces. Prerequisite: Mathematics 3530 or permission of the department chairperson.
- 4770. Applied Advanced Calculus. (3-0-3)** Calculus of several variables. Line and Surface Integrals. Vector and Tensor Analysis. Fourier Series. Prerequisites: Mathematics 2362 and 2371.
- 4800. Diagnosis, Remediation and Technology in Teaching Mathematics, K-12. (1-2-2)** The study of diagnosis, prescription, and remediation and their applications in teaching Mathematics K-12, as well as the effects on and applications of modern technological advances to the teaching of mathematics. Prerequisite: Mathematics 3300 or 3400 or permission of the department chairperson.
- 4820. Topics for Elementary and Junior High School Teachers in Algebra and Geometry. (2-2-3)** The study of metric geometry, geometric constructions, congruence similarity, symmetry, and coordinate geometry, solutions to linear equations, probability, statistics, ratio, percent, and problem solving. Prerequisite: Mathematics 1220 or permission of the instructor.
- 4850. Operations Research. (3-0-3)** Construction and use of mathematical models in industrial problem solving; linear programming, decision and game theory. PERT-CPM, Inventory models, queueing theory, and simulation. Prerequisites: Mathematics 2550 and 3702 or permission of the department chairperson.
- 4860. Mathematical Analysis. (4-0-4)** A study of limits, convergence of sequences and series, continuity, differentiation, and Riemann integration. Prerequisites: Mathematics 2362 and 2371.
- 4870. Data Structures. (3-0-3)** Stacks, queues, linked lists, recursive programming, trees, graphs, sorting, searching, theory of database systems. Programs done in assembler and Pascal. Prerequisite: Mathematics 3670 or permission of the department chairperson.
- 4900. History of Mathematics. (3-0-3)** The Ancient Orient. The period of Ancient Greece. The Hellenistic period. Seventeenth to nineteenth century A.D. The beginnings of Modern Mathematics. Prerequisite: Mathematics 2361 or permission of the department chairperson.
- 4910. Number Theory. (3-0-3)** Divisibility, primes, congruences, solution of congruences, power residues, quadratic reciprocity, numerical functions, diophantine equations. Prerequisite: Mathematics 3530 or permission of the department chairperson.
- 4970. Operating Systems and Job Control Languages. (3-0-3)** System structure, memory management, processor management, evaluation procedures, security. Detailed study of IBM OS/VS JCL will be given. Prerequisite: Mathematics 3670 or permission of the department chairperson.

## GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5050. Numerical Analysis. (4)** Rounding errors, difference equations, solutions of equations and systems of equations, interpolations, numerical differentiation. Prerequisites: Mathematics 2310 and 3501.
- 5080. Structure of Programming Languages. (3)** The structure and syntax of ALGOL. Selected topics in computer science. Prerequisite: Mathematics 2310 or permission of the department chairperson.
- 5100. Abstract Algebra. (4)** Basic algebraic concepts; one and two operation systems and their properties. Prerequisites: Mathematics 3531 and 4760 or permission of the department chairperson.
- 5151. Probability. (4)** Elementary and general probability spaces. Random variables, multivariate distributions and the algebra of expectations. Prerequisite: Mathematics 3701.
- 5152. Statistics. (4)** Random sampling, the law of large numbers, confidence intervals, regression, sampling from a normal population and testing hypotheses. Prerequisite: Mathematics 3702 or permission of the department chairperson.
- 5200. Higher Geometry. (4)** A selection of topics from transformation geometries. Prerequisite: Mathematics 4760 or permission of the department chairperson.
- 5210. An Introduction to Differential Geometry. (4)** The Euclidean space-functions, transformations, differential fields and forms, and the study of curves in Euclidean space. Prerequisite: Mathematics 4760 or permission of the department chairperson.
- 5220. Topology. (4)** Metric spaces. Topological spaces. Connectedness Compactness. Prerequisite: Mathematics 4860 or permission of the department chairperson.
- 5301. Real Variables. (4)** Set theory. Cardinal numbers. Real numbers. Measure theory. Lebesgue theory. Prerequisite: Mathematics 4860 or permission of the department chairperson.
- 5330. Complex Variables. (4)** Complex numbers, analytic functions, conformal mappings, complex integrations. Prerequisite: Mathematics 4860 or permission of the department chairperson.
- 5335. Topics in Mathematics. (2-4)** Topics selected from advanced areas in mathematics. Topics may vary depending on student interests and staff strengths. Prerequisite: Permission of the department chairperson. May be repeated for credit.
- 5400. The Teaching of Mathematics in Grades K-6. (3)** The techniques, methods, and materials used in teaching the concepts and skills of arithmetic in grades K through six. Prerequisite: Enrollment in the curriculum for elementary teachers. Mathematics 4820 or permission of the department chairperson.
- 5635. Mathematical Topics for Secondary School Mathematics Teachers. (2 or 3)** Topics selected from areas of mathematics useful in teaching high school mathematics including algebra, analysis, geometry, etc. May be repeated for credit if a different topic is taught. A maximum of nine semester hours credit may be counted toward a Master's degree program. Prerequisite: Permission of the department chairperson.
- 5700. Topics in Teaching Mathematics. (2 to 4)** Study of problems which arise in teaching secondary mathematics, research in mathematics educa-

tion; assigned reading reports. Prerequisite: Experience teaching grades six through twelve or permission of the department chairperson. May be repeated for a maximum of nine semester hours credit.

**5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

**5990. Independent Study. (1 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

## MUSIC

The graduate program in music provides advanced preparation for teaching and/or further graduate study. A core of music courses required for the degree provides essential background in history, literature, research and analysis. Other specialized courses, seminars and individual studies in performance, pedagogy, conducting, composition, literature and theory aid the student in achieving career goals.

Degree offered: M.A.

Major: Music

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General and Subject scores). Applicants for performance study must perform an audition and applicants in composition are to submit the scores of original compositions. All students are examined in music history and literature and in music theory and aural training at the beginning of their graduate studies.

**Study Plan Approval:** The Study Plan shall be approved by the student's graduate examination committee and filed in the Graduate School office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as for Graduate School, see page 18. In addition, all students must pass both written and oral comprehensive examinations. As many as 9 semester hours of credit in courses numbered from 4750 to 4999 may be counted in the Study Plan. The thesis requirement for the Major in Music may be fulfilled by (1) a thesis, (2) a recital with analysis, or (3) an original composition with analysis.

**Requirements for Degrees:** Each graduate program is subject to the approval of the student's examination committee. The core of courses for the music major is: Music 5100, 5170, 5880, 5950 and four semester hours of applied music study in the student's principal performance medium. Guidelines for additional coursework are published in **Graduate Programs in Music**. (Copies are available in the Music Department Office.)

**Graduate Assistantships** are available. Information can be obtained from the Chairperson of the Music Department or the Chairperson of the Graduate Steering Committee of the department. Applicants are required to complete a Department as well as a Graduate School Assistantship Application form.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

**4750. Choral Arranging. (2-0-2)** A practical approach to developing skill in scoring and arranging for various vocal ensemble combinations. Prerequisite: Three semesters of music theory.

**4770. Song Literature. (2-0-2)** The study of solo song literature from the Renaissance period to the present. May be taken twice for credit.

**4840. Band Arranging. (2-0-2)** A course in scoring and arranging materials for instrumental ensembles.

**4850. Jazz Band Arranging. (2-0-2)** A course dealing with the basic problems and techniques involved in arranging for a jazz band. Prerequisite: Music 2543 or equivalent.

**4860. Marching Band Procedure. (2-0-2)** Rudiments of marching band pageantry, and field maneuvers.

**4870. Style Period Proseminar. (3-0-3)** Stylistic study of the music of a period pre-selected from the following: 1) Middle Ages; 2) Renaissance; 3) Baroque; 4) Rococo-Classical; 5) Romantic; and 6) Twentieth Century. May be repeated for a maximum of 18 semester hours of undergraduate credit or nine semester hours of graduate credit. Prerequisite or corequisite: Music 3571 or 3572.

**4920. Keyboard Literature. (3-0-3)** A study of selected literature. May be taken twice for credit.

**4950. Accompanying. (Arr.-Arr.-1)** Vocal and instrumental accompanying techniques combined with practical application. May be substituted by keyboard principals for one hour of large ensemble. Prerequisites: Junior level and permission of instructor.

**4990. Workshop in Music. (Arr.-Arr.-1 to 3)** Literature techniques, pedagogy, and/or style in various media. Provided a student does not repeat courses with same content, he/she may earn a maximum of four semester hours credit.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

**5100 (5900). Introduction to Research in Music. (3)** An introduction to the various aspects of the musical discipline, intended to enable the student to think, research, and write intelligently about his/her field.

**5120. Music Theater/Opera Workshop. (2)** The study and performance of musical productions; opera, musical comedy, opera scenes. Prerequisite: Permission of the instructor.

**5170. Analytical Techniques. (3)** An investigation of structure, stylistic characteristics and compositional techniques.

**5500. Ensemble. (1)** To be chosen from Band, Orchestra, Chorus, Jazz Ensemble, Accompanying, Chamber Ensemble. May be repeated for a total of 4 semester hours credit.

**Auditions are required for initial placement in the following music courses: 5510-5570.**

**5510. Voice. (1 or 2 or 4)**

**5520. Flute. (1 or 2 or 4)**

**5521. Oboe. (1 or 2 or 4)**

**5522. Clarinet. (1 or 2 or 4)**

**5523. Bassoon. (1 or 2 or 4)**

**5524. Saxophone. (1 or 2 or 4)**

- 5525. Recorders. (1 or 2 or 4)**
- 5530. Trumpet. (1 or 2 or 4)**
- 5531. Horn. (1 or 2 or 4)**
- 5532. Trombone. (1 or 2 or 4)**
- 5533. Baritone. (1, 2 or 4)**
- 5534. Tuba. (1 or 2 or 4)**
- 5540. Percussion. (1 or 2 or 4)**
- 5550. Violin. (1 or 2 or 4)**
- 5551. Viola. (1 or 2 or 4)**
- 5552. Violincello. (1 or 2 or 4)**
- 5553. String Bass. (1 or 2 or 4)**
- 5560. Piano. (1 or 2 or 4)**
- 5561. Organ. (1 or 2 or 4)**
- 5562. Harpsichord. (1 or 2 or 4)**
- 5570. Composition. (1 or 2 or 4)**
- 5700. Internship in Music Instruction I. (3)** Philosophical and pedagogical principles for teaching voice, piano, and other instruments in both class and individual lessons. Observations and teaching under supervision of college faculty.
- 5701. Advanced Internship in Music Instruction II. (3)** Advanced instruction in teaching voice, piano, and other instruments in class and individual instruction. Prerequisite: Music 5700.
- 5855. Advanced Choral Conducting. (3)** A study designed to assist the choral conductor in: a) development of the choral instrument, b) preparation of the choral score, c) understanding performance practices, and d) rehearsing the ensemble efficiently in pursuit of artistic goals. Prerequisite: Music 3155 or equivalent.
- 5860. Advanced Instrumental Conducting. (3)** The course is designed to prepare the graduate instrumental conductor in the following areas: a) development of the instrumental ensemble, b) interpretation of the score, c) problems unique to the band and to orchestra, and d) efficient preparation and performance of the ensemble. Prerequisite: Music 3260 or equivalent.
- 5880. Seminar in Music History. (3)** Intensive study of selected historical topics.
- 5950. Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Student must submit outline of his/her plan of work to the Department of Music chairperson for approval and assignment to an instructor. Note: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

## OCCUPATIONAL EDUCATION

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4800. Strategies and Processes in Occupational Education. (3-0-3)** Application of such teaching strategies as problem-solving, simulation, pro-

- grammed instruction, computerized instruction and innovative and emerging methods and materials suitable for vocational teachers.
- 4810. Principles of Career Development. (3-0-3)** The nature, purpose, and philosophy of career education as it relates to the career development of individuals. Includes an overview of various levels of career development and the contributions various programs make to a total program of career development. Contemporary problems and issues in career development.
- 4913. Organization and Administration of Cooperative Occupational Education. (3-0-3)** Introduction to cooperative education programs, program needs, resources, constraints, public relations, and policy development are analyzed.
- 4923. Coordination Techniques for Cooperative Occupational Education. (3-0-3)** Methods and techniques for preparation of teacher coordinators. Student selection, training agreements, training plans, legal requirements, related class management, individualized instruction, and program evaluation are emphasized.

## PHYSICAL EDUCATION

Students may pursue a general program and select courses in various scientific areas, teaching and coaching theory, curriculum, or administration. Students interested in sports administration may take courses which will help prepare them for administration within the broad spectrum of sports in schools, recreation, professional sports, or commercial programs. Students interested in adult fitness and cardiac rehabilitation may select coursework preparing them for employment in industrial-employee fitness, hospitals, YMCA, YWCA, health clubs, etc. These courses will aid students in preparation for American College of Sports Medicine (ACSM) certification examinations.

Degree offered: M.S.

Major: Physical Education

**Admission Requirements:** Degree status admission to the Graduate School. See page 15. GRE (General) or MAT scores. Students interested in sports administration should contact the Department of Physical Education.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 17.

**Graduation Requirements:** Same as Graduate School requirements (see page 18).

### Requirements for Degree:

Physical Education 4750*, 5000, 5901	5-8 s.h.
**Electives in Health, Physical Education, and/or Recreation	24-27 s.h.
<b>TOTAL</b>	<b>30 or 32 s.h.</b>

\*4750 — Required of students who have not completed a similar course as an undergraduate.

\*\*Three to six hours of electives outside the School of Health, Physical Education and Recreation are allowed when the courses specifically contribute to the goals of the student.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Measurement and Evaluation in Physical Education. (3-0-3)** Selection and administration of physical measurements and written tests commonly used in physical education.
- 4800. The Atypical Child in Action. (3-0-3)** The course is designed to prepare the student to teach sensorimotor learning activities through physical educa-

tion to the atypical child from pre-school through sixth grade. Prerequisite: Physical Education 3600 or 2410 or permission of the instructor.

## GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000. Introduction to Graduate Study in Physical Education. (4)** A critical review and evaluation of selected studies in physical education and related fields, including an overview of statistical procedures and an in-depth exposure to various types of research.
- 5100. Supervision of Physical Education. (3)** Techniques of supervision; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.
- 5120. Social Psychology and Physical Activity. (3)** Study of psychological theories, influence of an audience, the use of social reinforcement, the influence of a model, the impact of competition, personality, attitudes and aggression in physical activity.
- 5131. Lower Extremity and Specific Injury Problems. (3)** Lecture and seminar approach to investigate sports medicine problems relating to lower extremity and specific injuries. Material will be presented from the perspective of coaching problems in these areas.
- 5134. Injury Recognition with Head, Neck, and Upper Extremity Problems. (3)** Lecture and seminar approach to investigating sports medicine problems relating to the injury recognition head, neck, and upper extremity injuries. Material will be presented from the perspective of coaching problems in these areas.
- 5137. Therapeutic Modalities and Nutrition. (3)** Lecture and seminar approach to investigating sports medicine problems relating to therapeutic modalities and nutrition.
- 5140. Current Trends in the Teaching of Physical Education in the Elementary and Junior High School. (3)** Materials, organization and program of physical education. Integration of physical education with general education.
- 5190. Growth and Development Through Physical Education. (2)** Survey of growth and development of children and adolescents as these relate to curriculum planning for physical education.
- 5200. Course of Study Development in Physical Education. (3)** Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.
- 5210. Administration of Interschool Athletics. (2)** Organization and control of interschool athletics at the national, state, and local levels. Staff; programs, budget; health and safety; facilities.
- 5220. Organization and Administration of Physical Fitness and Cardiac Rehabilitation Programs. (2)** The course is designed to provide the student with organizational and administrative direction in planning and implementing adult fitness and cardiac rehabilitation programs.

- 5230. Physiology of Exercise. (3)** A study of the immediate and long range effects of muscular activity upon the respiratory, circulatory, and muscular systems. Prerequisite: Zoology 2999 or equivalent.
- 5240. Physical Education for the Atypical Individual. (2)** Survey of human physical disabilities combined with adaptive and rehabilitative measures to promote better living for the individual.
- 5250. Exercise Electrocardiography. (3)** The course is designed to instruct the student in the basics of the normal and abnormal resting and exercise electrocardiogram. Involves lecture experiences and intensive investigation of documented ECG-GXT case studies. Prerequisites: One course in Exercise Physiology and permission of the instructor.
- 5300. Advanced Administration of Physical Education in Schools. (2)** Liability; construction of facilities; purchase and care of athletic equipment; budget and finance; evaluative procedures; general administrative control.
- 5450 (5650). Supervisory Experiences in Adult Fitness. (3)** The course is designed to provide the student with practical experience in supervising the testing and exercise sessions in an adult fitness program at Eastern Illinois University. Prerequisites: One course in Exercise Physiology, CPR certified, and permission of the instructor.
- 5570. Analysis of Human Motion. (3)** Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Prerequisite: Physical Education 2440.
- 5600. Advanced Theory and Analysis of Team Sports. (2)** Study of techniques, organization and team strategy of selected team sports as they relate to the learner in the physical education program. Prerequisite: Proficiency in the selected sports.
- 5610. Advanced Theory and Analysis of Individual Sports. (2)** Study of techniques, organization and game strategy selected in individual sports as they relate to the learner in the physical education program. Prerequisite: Proficiency in the selected sports.
- 5630. Philosophy of Physical Education. (3)** Study of principles of physical education with application to current problems in the field.
- 5640. Graded Exercise Testing and Exercise Prescription for the Apparently Healthy and the Cardiac Patient. (3)** The course is designed to examine the theoretical and practical aspects of cardiovascular testing devices and their protocols. In addition, classic techniques in exercise prescription will be investigated and implemented in real life situations. Prerequisites: One course in Exercise Physiology, Physical Education 5250, and permission of the instructor.
- 5655. Supervisory Experiences in Cardiac Rehabilitation. (3)** The course is designed to provide the student with observation and practical experience involving the Cardiac Rehabilitation Program at Sarah Bush Lincoln Health Center and Eastern Illinois University. Prerequisites: Physical Education 5250, 5650, CPR certified, and permission of the instructor.
- 5700. Experimental Laboratory Research in Physical Education. (3)** Techniques and procedures employed in obtaining anthropometric, metabolic, cardiorespiratory and other physiological data in laboratory and field environments.

- 5710. Sociological Bases of Sport in America. (3)** The role of sport in American culture. Influence of basic social units, fundamental social processes and social values on sport in America.
- 5730. The Nature and Bases of Motor Behavior. (3)** A study of the factors influencing human movement and skill learning. Emphasis is placed upon the input-output aspects of motor skill performance.
- 5750. Special Problems in Gerontology. (1)** A study of problems of the elderly with variable course content. Prerequisite: Permission of the instructor. May be repeated for a maximum of three semester hours.
- 5800. Analytical Readings in Health, Physical Education and Recreation. (3)** Assigned readings in professional publications for education and health and physical education articles.
- 5901. Seminar in Health, Physical Education, Recreation, and Sports. (1)** Discussion of reports, current problems, trends and research. Required for candidates for the M.S. in physical education.
- 5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Individual pursuit of study selected by the student. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.
- 5991, 5992. Internship in Sports Administration. (3 each)** A supervised experience in the various aspects of sports administration. Student will be assigned to a hosting agency which could be a school or college; a sports arena, stadium, recreation area, or a professional team.
- 5993. Field Experience in Gerontology. (3)** An individualized planned work experience in an agency or institution appropriate to the student's area of specialization in gerontology. May be taken for a maximum of six semester hours.

## PHYSICAL SCIENCE

Degree offered: M.S. in Ed.

Major: Physical Science

This degree provides advanced study in chemistry and physics to improve the qualifications of persons who teach those subjects at the secondary level. Courses specifically designed for inservice high school chemistry and physics teachers are available in summers only. Other advanced undergraduate and graduate level courses are available during the academic year.

The division of required graduate work between chemistry and physics courses will be determined in consultation with the graduate faculty and based upon the student's background and his/her current or anticipated teaching assignments.

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General) or MAT score.

**Study Plan Approval:** The study plan shall be filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 17.

### Requirements for Degrees:

Basic Courses in Education (see page 35)	8 s.h.
Courses in Chemistry/Physics selected from courses numbered 4750 and above	18-24 s.h.
Electives: Course work in related fields	0-6 s.h.
<b>TOTAL</b>	<b>32 s.h.</b>

**Graduation Requirements:** Same as for the Graduate School (see page 18).

## PHYSICS

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Thermodynamics and Statistical Mechanics. (4-0-4)** Thermometry, thermodynamic laws, kinetic theory, Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics and applications. Prerequisites: Physics 1360; Mathematics 2361.
- 4800. Independent Study. (Arr.-Arr.-1 to 3)** Selected problems based on the student's interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference. Prerequisite: Permission of the instructor.
- 4830. Experimental Physics I. (0-6-3)** Experiments chosen for their pertinence to high school physics teaching. Emphasis on selection procedure, analyzing results and reporting. Required for high school physics certification. Prerequisite: Physics 1370 or 1160.
- 4840. Experimental Physics II. (0-6-3)** Experiments from different areas of physics using varied techniques and equipment in acquisition and analysis of physical data. Prerequisite: One physics course beyond Physics 1370.
- 4850. Quantum Mechanics and Atomic Physics I. (3-3-4)** Schrodinger equation applied to one, two, and three dimensional problems, harmonic oscillator and hydrogen atom, uncertainty principle. Prerequisites: Physics 1370; Mathematics 2362 or 3501.
- 4860. Quantum Mechanics and Atomic Physics II. (2-0-2)** Applications of the Schrodinger equation to nuclear, solid state, exclusion principle, angular momentum, atomic spectroscopy. Prerequisite: Physics 4850.
- 4870. Theoretical Physics. (3-0-3)** Selected topics from dynamics (Lagrangian, Hamiltonian) electromagnetic theory (Maxwell's equations), etc. Prerequisite: Physics 2400. Corequisite: 3420 or permission of the instructor.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

The following courses are available for the M.S. in Education degree in Physical Science. All six of these courses are heavily laboratory oriented with emphasis on material pertinent to the high school physics laboratory.

- 5120. Classical Mechanics for High School Teachers. (3)** An enhancement of those fundamental concepts of classical mechanics needed for successful teaching. Prerequisites: General college physics, calculus, and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.

- 5130. Electrodynamics for High School Teachers. (3)** Topics of special interest in high school teaching selected from electricity and magnetism. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5140. Electronics for High School Teachers. (3)** Concepts of the tube and transistor circuits useful in teaching high school physics. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5150. Astronomy for High School Teachers. (3)** Topics of special interest in high school teaching selected from modern astronomy. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5160. Modern Physics for High School Teachers. (3)** Topics of special interest in high school teaching selected from twentieth century physics. Prerequisites: General college physics and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5170. Optics for High School Teachers. (3)** Topics of special interest in high school teaching selected from the field of optics. Prerequisites: General college physics, calculus, and high school science teaching experience; or permission of the department chairperson. Credit may be counted only toward the M.S. Ed. degree.
- 5990. Independent Study. (1 to 6)** Selected problems based upon the student's background and interests. Admission and assignment of problems by arrangement. Laboratory, reading, conference, and oral reports. Prerequisite: Permission of the instructor.

## POLITICAL SCIENCE

This program provides a flexible curriculum for students interested in public administration, politics, legal research, future Ph.D. work or teaching. Job placement emphasis is on public service at the state and local levels. Internships related to government, politics and the legal system are available.

Degree offered: M.A.

Major: Political Science

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General) (recommended for students planning Ph.D. study) or MAT score.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as for Graduate School (see page 18). Political Science 4753 is required; all other courses are elective. Internship and formal paper, or submission of three seminar papers, may be substituted for thesis and presented at oral examination. Written comprehensive examinations required in American Government and sub-field of student's choice.

**Graduate Assistantships** are available. Contact department chairperson or graduate Political Science coordinator, 204 Coleman Hall, EIU. Phone: (217) 581-2523.

## COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4753. Research Methods and Program Evaluation. (3-0-3)** Problems and techniques of social scientific and policy oriented research; methods of data analysis including research design, applied regression analysis and cost-benefit analysis. Prerequisite: Three semester hours of political science or permission of the instructor.
- 4774. American Constitutional Law. (4-0-4)** An analysis of Supreme Court decisions on federalism; powers of the President, Congress and the Supreme Court; commerce; taxation; and the civil liberties of the individual.
- 4793. Public Administration: Organization and Process. (3-0-3)** A study of the dynamics of organization origin and policy development; a survey of contemporary theory and its significance. Prerequisite: Political Science 1103 or permission of the instructor.
- 4821, 4822, 4823. International Policy Issues. (3-0-1 each course)** An analysis of contemporary world problems from the point of view of different nation-states. Students will help select the issues. (Courses offered consecutively: 4821 for five weeks, 4822 for five weeks, and 4823 for five weeks. Students may register for any one, two, or all three of the courses in the same semester.) Prerequisite: Nine semester hours in the social sciences or permission of the instructor.
- 4831, 4832, 4833. Policy Practicum. (3-0-1 each course)** Study of the policy making process in selected issues; applied work with methods of policy analysis. (Courses offered consecutively: 4831 for five weeks, 4832 for five weeks, and 4833 for five weeks. Students may register for any one, two or all three of the courses in the same semester.)
- 4843. Analysis of Urban Politics. (3-0-3)** A study of the empirical research dealing with urban government and the structural components of urban politics.
- 4873. Government Personnel Administration. (3-0-3)** An examination of the political environment's impact on personnel policies of local, state and federal agencies. Policies ranging from rights of government employees to affirmative action programs will be explored. Prerequisite: Political Science 1103 or permission of the instructor.
- 4893. Government Budgeting and Taxation. (3-0-3)** A study of how and why federal tax revenues are allocated to various programs; an examination of federal and state taxation policies. Prerequisite: Political Science 1103 or permission of the instructor.
- 4903. Political Theory: Ancient, Medieval, and Modern. (3-0-3)** The origins and evolution of major concepts in political thought from the time of Pericles through Rousseau. Prerequisite: Six semester hours of political science or permission of the instructor.
- 4913. Contemporary Political Theory. (3-0-3)** Contemporary concepts in political thought with an emphasis upon the development of communist, fascist, social democratic and new left theory. Prerequisite: Six semester hours of political science or permission of the instructor.
- 4933. The Ideologies of the Developing Nations. (3-0-3)** Survey of Third World political thought with a focus on the ideologies of nationalism, revolution, socialism, and democratic reform. Prerequisite: Three semester hours of political science or permission of the instructor.



## GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5003, 5013. Administrative Internship. (3 each course)** A student will serve as an intern in a federal, state, county, municipal or party organization or agency appropriate to his/her area of concentration.
- 5023. Contemporary Problems in International Politics. (3)** Approaches to the study of international politics and contemporary world problems. Prerequisite: Nine semester hours in the social sciences or permission of the instructor.
- 5033. Policy Problems in Industrialized States. (3)** Approaches to the comparative analysis of policy issues in Western industrialized states. Prerequisite: Nine semester hours in the social sciences or business or permission of the instructor.
- 5053. Contemporary Constitutional Development. (3)** An analysis of current decisions and politics of the Supreme Court with emphasis on equal protection, first amendment, due process and changes in the powers of the executive, legislative and judicial branches. Prerequisite: Three semester hours in public law or permission of the instructor.
- 5063. Seminar in Urban Development. (3)** An analysis of American cities and urban problems with an emphasis on intergovernmental relations. Prerequisite: Three semester hours in state and local government or permission of the instructor.
- 5073. Seminar in Political Behavior. (3)** An analysis of political behavior; the formation of opinions, roles and personality; democratic and authoritarian personality types. Prerequisite: Political Science 3723 or permission of the instructor.
- 5133. Seminar in Political Problems of Asia and the Middle East. (3)** An in-depth examination of selected topics in the political processes and structures of Asia and the Middle East. Prerequisite: Nine semester hours in the social sciences or permission of the instructor.
- 5173. Seminar in Congressional Politics. (3)** The study of individual and group political behavior in the United States Congress through reading, discussion and individual research. Prerequisite: Nine semester hours in the social sciences or permission of the instructor.
- 5273. Seminar in Executive Process. (3)** A study of executive politics in the United States concentrating on the offices of President, Governor, and Mayor. Prerequisite: Six semester hours in political science or permission of the instructor.
- 5533. Seminar in Political Modernization. (3)** Analysis of theories of political development and modernization. Review of the challenges facing rapidly changing societies and the appropriateness of national responses to these problems. Prerequisite: Six semester hours in the social sciences or permission of the instructor.
- 5543. Seminar in Public Administration. (3)** Contemporary administrative policies and processes are explored through reading, discussion and individual research. Prerequisite: Political Science 3413 or permission of the instructor.

- 5843. Topical Seminar in Public Policy. (3)** A topical seminar in the formation, substance, and impact of public policy, including examination of future policy choices. The policy issues examined will vary from year to year. Prerequisite: Six semester hours of political science or permission of the instructor.
- 5950. Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and/or 5990 and/or 5997.
- 5990. Independent Study. (1 to 6)** An intensive study in some specialized area of interest in political science; the student must present an individual study plan for approval. Prerequisite: Nine semester hours of graduate courses in political science. Note: A maximum of nine semester hours may be earned in a combination of 5990 and/or 5950 and/or 5997.
- 5997. Study Abroad. (3 to 6)** Special permission of the department. Note: A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

## PSYCHOLOGY

The psychology department has two distinct majors. Admission to the graduate program in psychology is limited by the number of available openings in the department.

Degree offered: M.A.

Majors: Psychology  
School Psychology

**General Admission Requirements:** Degree status admission to the graduate school (see page 15), GRE (General) or MAT score. A 3.0 grade point average in undergraduate courses and 3.25 grade point average in undergraduate psychology courses ( $A=4$ ) are the usual minimum criteria for admission to the department in psychology; however, four optional routes to admission may be considered. They are: 1) a score of 1100 on GRE (General) Test, 2) a score above the fiftieth percentile of the GRE Subject Test (psychology), 3) a raw score above 50 on the MAT, or 4) by petition to and acceptance by the psychology department's graduate committee. Students should submit their applications and other supporting data to the Graduate School office well ahead of their planned entry date so that their applications may receive consideration by the psychology department's admission committee.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree.

**Description of Major:** Psychology.

Generally, this program is designed for students with interest in clinical psychology or general/experimental psychology. The courses for the degree must total at least thirty semester hours for programs including the thesis and at least thirty-two semester hours for programs without the thesis.

**Specific Admission Requirements:** Successful applicants must present a transcript from an accredited institution showing the completion of the following specific courses:

Introductory Psychology	Psychological Measurement
Statistics	Experimental Psychology
Child Psychology	Abnormal Behavior
Personality Theory	

Deficiencies must be made up concurrently with the graduate program. With the exceptions of statistics and experimental psychology, petitions for waiver and/or substitution of these prerequisites may be made to the graduate committee.

**Program Requirements:** Requirements for Degree (Core Courses)

PSY 4760; PSY 5610

one of the following two courses:

PSY 5040; PSY 5360

two of the following five courses:

PSY 4880; PSY 4900; PSY 5950; PSY 5970; PSY 5990

**Description of Major:** School Psychology.

The school psychology major is designed to prepare individuals to function in a school setting in a role that requires interest in the educational and personal adjustment of children and adolescents. It is anticipated that school psychology majors will develop skills in assessment of personality, cognitive and non-cognitive factors, therapeutic techniques and educational remediation, consultation, program development and staff training.

Although the primary thrust of the program is to certify school psychologists in the State of Illinois, many graduates apply to other states where they may also qualify for state certification. An Illinois school psychologist must complete a full-year internship in a setting approved by the Illinois State Board of Education.

**Specific Admission Requirements:** Admission to the school psychology major follows the general admission criteria listed above. In addition, applicants are required to complete a minimum of twenty-four (24) to thirty (30) hours of undergraduate psychology in the following areas:

Child Psychology	Experimental Psychology
Theories of Personality	Statistical Methods
Exceptional Children	Psychological Measurement
General Psychology	

Highly recommended undergraduate courses include:

Abnormal Psychology	Cognitive Psychology
Adolescent Psychology	Elementary Education courses
Psychology of Learning	Special Education courses

Students may be conditionally admitted without these prerequisites. Deficiencies must be made up concurrently with the graduate program.

**Program Requirements:** Students in the School Psychology option must complete requirements for both the Master of Arts degree in psychology and for certification in the State of Illinois as a school psychologist.

**Degree Requirements:** Students are awarded the Master of Arts degree in psychology following successful completion of 32 semester hours of work (consistent with the student's graduate study plan) and receipt of the Certificate of Comprehensive Knowledge.

**Certification Requirements:** Students are required to take a total of 60 semester hours (minimum) of coursework/practicum and internship experience. A minimum of 48 hours of coursework and practica is taken in the following seven core areas:

1. Psychological Assessment
2. Research Statistics
3. Remediation and Psychotherapy
4. Role and Function of Psychologist in the Schools
5. Practicum Experience
6. Special Populations of Children
7. Elective Courses

Following successful completion of coursework in the above core areas, the students are recommended for internship by the School Psychology Committee.

The internship in school psychology is taken at a site and with a supervisor approved by the Illinois State Board of Education. The internship is a full-time full academic year experience. Students receive 12 semester hours of credit (Psy 5999) in Internship in School Psychology.

**Accreditation:** The school psychology program is fully approved by the State Teacher Certification Board, Illinois State Board of Education, N.C.A.T.E. program approval, and meets standards of the National Association of School Psychologists.

**Graduate Assistantships** are available in the Psychology Department. Other assistantships with duties in area mental health and other service agencies, and paid internships may be available. Contact the Graduate Coordinator, Department of Psychology, 104 Physical Sciences Bldg., EIU. Phone: (217) 581-2127.

**COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS**

**4750. Psychology of Exceptional Children. (3-0-3)** A survey of educational, medical and psychological characteristics of exceptional children below the age of 21. Methods used to identify and assess the special problems of these children and the various programs of intervention are embodied in this course. Prerequisite: Psychology 2310.

**4760. Personality Assessment I: Foundations and Behavioral Assessment. (3-0-3)** An introduction to the conceptual foundations of personality assessment with an emphasis on the evaluation of quality of evidence and decision making processes. Major approaches to assessment are surveyed and the student develops competencies in behavioral methods, including interviewing and observation. Prerequisites: Psychology 3590 and 3601, or permission of instructor.

**4765. Methods in Behavioral Management. (3-0-3)** The basic concepts of human operant conditioning. Emphasizes applied research and techniques of behavior management applicable to a wide variety of settings and problems.

**4780. Abnormal Behavior. (3-0-3)** A study of the etiology, diagnosis, and treatment of neurosis, psychoses and various emotional and behavioral disorders. Prerequisite: Psychology 2310.

**4830. Introduction to Group Dynamics. (1-2-2)** Introduction to group dynamics and therapeutic group procedures. Laboratory and classroom experiences will be utilized to provide direct group experiences and a basic fund of information of theoretical and empirical literature pertaining to groups. Admission to course by approval of instructor prior to registration.

**4840. The Clinical Psychologist. (3-0-3)** Clinical psychology procedures and their application in the practice of psychology in community and family services, penal institutions, and mental health agencies. Prerequisites: Psychology 3590 and 3601 or permission of the instructor.

**4850. Psychological Intervention. (4-0-4)** A comprehensive survey of psychological intervention theories along with practical and realistic guidelines for psychological interventions in personal, family, legal, and organizational crises. Prerequisite: 20 semester hours in psychological or related areas.

**4860. Psychology in Criminal Justice and Behavior. (3-0-3)** Psychological explanations of the "criminal mind" and different types of offenders, with emphasis on treatment of the offender and the interface between forensic

psychology and the mental health system. Research on the effectiveness of various treatment modalities will be reviewed. Prerequisite: Psychology 2310 or Sociology 2761 or permission of the instructor.

- 4870. Social Psychology. (3-0-3)** Comprehensive survey of research on social behavior. Topics to be studied include subcultural influences, group dynamics, inter-group relations, interpersonal interaction, and attitude change. Prerequisite: Psychology 2310.
- 4880. Advanced Statistics in Psychology. (3-0-3)** Analysis of variance techniques in experimental design. Prerequisite: Psychology 2610 or equivalent.
- 4900. Evaluation and Techniques of Treatment Research. (3-2-4)** A review of the research evaluating psychological services, such as psychotherapy, crisis-treatment centers, prevention programs, self-help courses, encounter groups, and others. Emphasis is on outcome measures, treatment effectiveness and methodological or design problems. Prerequisites: Psychology 2330, 2610 or 3800, and 3601.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5005. Personality Assessment II: Child and Adolescent. (4)** This competency-based course gives practice and exposure to various traditional and behavioral assessment techniques relevant to children and adolescents, their parents and teachers. The student develops competencies on the TAT, CAT, Roberts, Bender, KFD, and various other instruments and techniques. Prerequisites: Psychology 3590, 3601, 4760; or permission of the instructor.
- 5015. Individual Intelligence Testing. (4)** Advanced study of individual intelligence tests; practice in administration and interpretation. Prerequisites: Psychology 2310 and 3601.
- 5025. Personality Assessment III: Adult. (4)** This competency-based course gives practice and exposure to various traditional assessment techniques relevant to adults. The emphasis of this course is upon a case-centered approach to the assessment of adults. Prerequisite: Psychology 4760 or permission of the instructor.
- 5030. The School Psychologist. (2)** An introduction into the activities of the school psychologist. Prerequisite: Concentration in school psychology.
- 5040. Psychotherapeutic Principles and Practices I. (3)** A critical survey of issues, principles, practices, and research as related to the traditional approaches in psychotherapy. Prerequisite: Psychology 3590 or equivalent.
- 5050. Therapeutic Practices: Behavioral Approaches. (3)** Concepts and procedures utilized in behavior therapy; special emphasis on systematic desensitization, assertiveness training, modeling, and contingency management.
- 5110. Psychoeducational Assessment of Preschool Children. (3)** The psychoeducational assessment of preschool children: including techniques for assessing cognition, language, perceptualmotor processes and social-emotional development. Prerequisite: Psychology 5015 or permission of the instructor.

- 5170. Theories of Learning. (3)** A survey and comparison of theories of response acquisition emphasizing the biological preparedness for and internal representation of acquired responses. Prerequisite: Undergraduate course in learning theory or permission of the instructor.
- 5360. Advanced Experimental I. (4)** A survey of the basic findings and theories related to sensory and perceptual processes. Prerequisite: Psychology 3829 or permission of the instructor. Psychology 3310 recommended.
- 5540. Psychological Processes in the Aged. (3)** An in-depth study of age related changes, in the elderly, in such psychological processes as learning, memory, sensation, perception, intelligence, adjustment, and personality. Prerequisite: Psychology 2310 or permission of the instructor.
- 5545. Techniques for Geriatric Management. (3)** A study of several psychological techniques designed to increase psychological adjustments in the elderly. Prerequisite: Psychology 5540.
- 5560. Marriage and Family Counseling. (2)** A survey of current theory and practice in marriage and family counseling. The emphasis is on learning how to use effective strategies and techniques to help solve marital and family problems. Prerequisite: Permission of the instructor.
- 5610. Research Methods. (3)** Introduction to style of research reporting; survey of types and designs of research; and statistical analysis of data. Prerequisite: Psychology 2610 or equivalent.
- 5750. Special Problems in Gerontology. (1)** A seminar focusing on a particular psychological aspect or problem associated with aging or the treatment of such problems. The topic will be announced each semester. May be repeated for a total of three semester hours.
- 5890. Field Study or Practicum. (1-12)** Supervised experience in a setting that allows the application of skills and training of the student's area of concentration. Prerequisite: Permission of the instructor. May be repeated for a maximum of 12 semester hours.
- 5950. Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and/or 5990 and/or 5997.
- 5970. Seminar Topics in Psychology. (3)** Specific areas or topics of psychology will be given intensive study through readings, reports and group discussions. Topics will be selected on the basis of need. Prerequisite: Permission of the instructor. May be repeated.
- 5990. Independent Study. (1 to 6)** Advanced study of topics selected by the student and approved by his/her advisor. May include research, readings, group discussions. Prerequisite: Permission of the instructor. Note: A maximum of nine semester hours may be earned in a combination of 5990 and/or 5950 and/or 5997.
- 5997. Study Abroad. (3 to 6)** Special permission of the department. Note: A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.
- 5999. Internship in School Psychology. (6)** May be repeated for a total of 12 semester hours. The internship experience allows the student to demonstrate skill proficiencies acquired during formal training on campus and to acquire additional knowledge and skills in an appropriate field placement. Prerequisite: Approval as an intern by the School Psychology Faculty Committee.

## RECREATION

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4790. Swimming Pool Management and Operation. (3-0-3)** The course orients the student in design of swimming pools, water treatment, maintenance problems, operational procedures, and program planning. Field trips are included.
- 4800. School Recreation and Intramural Sports. (2-2-3)** The philosophy of intramurals and school recreation dealing with the functions and techniques of administrative personnel including scheduling and programming of a variety of school recreational activities. Practical experience is provided.
- 4830. Administration of Leisure Services. (3-0-3)** Exploration of philosophical viewpoints underlying a recreation program; criteria for evaluating the recreational potential of a community; administrative problems related to park and recreation programs. Prerequisite: Twelve semester hours of recreation class credit or permission of the instructor.
- 4840. Development of Areas and Facilities for Health, Physical Education, and Recreation. (3-0-3)** Design and operation of physical education and recreation facilities, both indoor and outdoor. Consideration is given to types, location, lay-outs, construction standards and building codes.
- 4850. Financial Practices for Leisure Service Agencies. (3-0-3)** The investigation of the financial structures, resources, and budget management for public and private recreation agencies is included.
- 4900. Maintenance and Operation of Parks. (3-0-3)** A study of methods and materials necessary for the operation and maintenance of recreation parks and other outdoor recreation areas. Information considered will involve a non-scientific approach to such areas as horticulture, agronomy, landscaping, general construction, paving, equipment and maintenance operation.
- 4910. Resource Management and Planning. (3-0-3)** A study of resource management and planning as it pertains to parks and wilderness use areas. The demand for outdoor recreation, carrying capacity, use classification, and outdoor recreation management models will be analyzed. Prerequisite: Environmental Biology 2010 or permission of the instructor.
- 4950 (5250). Leisure Services for the Aged. (3)** Scope of the therapeutic recreation services available through private and public agencies; analysis of programs designed for persons with physical, emotional, intellectual or social disorders and handicaps.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5420. Principles and Philosophies of Leisure. (2)** A study of past, present, and future trends in the status of leisure in the American society. An analysis of the role of the leisure service agency in present society. Prerequisite: Graduate or senior standing.
- 5430. Seminar in Issues and Trends in Leisure Service Agencies. (3)** Identification and discussion of current issues and trends in the recreation movement in the U.S. and foreign lands.

## RELATED ARTS

(See Fine Arts.)

The interdisciplinary format of the program provides opportunity for survey and in-depth experiences relating the arts through structured and elective study in Art, English, Music, Theatre Arts and interdisciplinary Fine Arts courses.

Degree offered: M.A.

Major: Related Arts

## SECONDARY EDUCATION

(See sections on M.S. in Ed., M.A. and M.S.)

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4751. Strategies of Adult Instruction. (3-0-3)** Methods, techniques, and devices in adult education, developing action oriented learning situations, programmed instruction, developing appropriate materials and evaluating the outcome of courses.
- 4780. Studies in Education. (3-0-3) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4790. Studies in Education. (2-0-2) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4800. Studies in Education. (1-0-1) On demand.** Problems in education, student activities, curriculum, guidance, and evaluation. Each student is assigned an individual problem. Prerequisite: Eight semester hours in education and psychology.
- 4850. Seminar and Field Experiences in Adult Education. (2-6-4)** A supervised experience in an adult educational operation which will allow the student to apply his/her skills and training to teaching adults. A follow-up of these experiences and other specific areas and topics will be given further study through readings, reports, and group discussions. Prerequisites: Secondary Education 4751, approval by the department chairperson and acceptance by a cooperating adult education organization.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5990. Independent Study. (1 to 6)** Intended to permit a student to pursue more intensively various aspects of the area of his/her special interest. Prerequisite: Permission of the department chairperson.

## SOCIOLOGY

Degree offered: M.A.

Major: Sociology

**Admission Requirements:** Degree status admission to Graduate School (see page 15), GRE (General) or MAT score.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as for Graduate School (see page 18). In addition, candidates must complete the following core courses: 5030, 5070, and 5100. Also, candidates must pass written comprehensive examinations in sociological theory, research methods, and selected area of interest. Contact the departmental office for descriptions of areas of emphasis.

**Graduate Assistantships** are available. Contact department chairperson or graduate coordinator, 332 Coleman Hall, EIU. Phone: (217) 581-3123.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Sociological Analysis of Juvenile Delinquency. (3-0-3)** Advanced study of theories of etiology, treatment and prevention. Prerequisites: Sociology 2710, 2761 or permission of the instructor.
- 4770. Sociological Analysis of Crime and Criminal Justice System. (3-0-3)** An advanced study of the social-psychological factors of crime and the adult offender, vis-a-vis the Criminal Justice system; i.e., apprehension, adjudication, treatment and prevention practices. Prerequisites: Sociology 2710, 2761 or permission of the instructor.
- 4790. The Correctional Process: A Sociological Analysis. (3-0-3)** Provides an understanding of the entire field of correctional systems, in terms of its official objectives, its actual effects and effectiveness including special focus on experimental programs. Prerequisites: Sociology 2710 and 2761.
- 4800. Sociological Aspects of Gerontology. (3-0-3)** Review of current gerontological theories and research; consideration of structural and functional aspects of the social order as related to the aging process. Prerequisite: Sociology 2710.
- 4900. Individual Problems in Sociology. (3-0-3)** Analysis of selected current social problems with emphasis on sociological research techniques. Restricted to majors in Sociology and Social Science. May be taken twice for credit. Prerequisite: Sociology 4520.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5030. Contemporary Sociological Theory. (3)** Consideration of the major contemporary sociological theories and conceptual orientations.
- 5070. Advanced Research Methods in the Social Sciences. (3)** Philosophy of the social sciences, alternative strategies of research design, data collection methods, techniques of casual analysis, use of library computer programs for data analysis, issues and techniques in the evaluation of social programs. Prerequisite: Sociology 3610 and 4622.
- 5100. Social Organization. (3)** Analysis of social groups in the context of social structure, latent and manifest functions, social processes, and the nature of recruitment.

- 5150. Advanced Criminology. (3)** Seminar exploring recent innovations in the criminal justice system. Prerequisites: Sociology 4750 and 4770, or their equivalents.
- 5200. Urban Social Problems. (3)** In-depth analysis of major social problems of the city. The generation of hypotheses and research proposals will be emphasized.
- 5250. Social Change. (3)** Analysis of theories of social change; emphasis on the major forces in social change as revealed by historical examples.
- 5300. Community Planning and Development. (3)** Analysis of the techniques to facilitate orderly growth and redevelopment of the total community, including the study of both social and environmental problems.
- 5350. Advanced Sociology of Medicine. (3)** A comprehensive sociological description and analysis of the medical profession in the United States. Medicine will be considered as a social institution in its relationship to other social institutions and to the subsystems of institutions, especially the community. Prerequisite: Sociology 4702 or permission of the department chairperson.
- 5450 (5751). Advanced Gerontology – The Aged in Transitional Society. (3)** An analysis of the processes involved in development and coordinating programs and experiences necessary to utilize the resources of the aged in a transitional society.
- 5930. Internship in Social Relations. (3 to 6)** A supervised work experience in local agencies to familiarize students with actual day-to-day operations and procedures relevant to the student's option.
- 5950. Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.
- 5990. Independent Study. (1 to 6)** Individual pursuit of study selected by the student in collaboration with an instructor. Note: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

### SPECIAL EDUCATION

The master's degree in Special Education is designed to prepare educational personnel for the diverse roles they will be asked to play in Special Education. This flexible program is designed for teachers with Special Education certification, teachers with Regular Education certification, and individuals without certification preparing for a career in Special Education.

Degree offered: M.S. in Ed. Major: Special Education

**Admission Requirements:** Degree status admission to the Graduate School (see page 15); GRE (General) or MAT score.

To be admitted to the M.S. Ed. in Special Education program, a student must complete the following requirements:

1. Apply for and be admitted to the Graduate School of Eastern Illinois University.
2. Attain a GRE score of at least 850 or a MAT score of at least 45.
3. Present documentation of (1) successful teaching experience; or (2) successful work experience in an allied field; or (3) other appropriate experiences and/or service (e.g., student teaching in special education, volunteer work with individuals with exceptionalities).
4. Submit a statement of future professional goals.

Exceptions to the above may be made upon request to the department with two-

thirds of the faculty concurring. In the event of a request for an exception, additional documentation may be required.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as for the Graduate School (see page 18). Also see section on M.S. in Ed. (page 35). Students may select a thesis or non-thesis option.

**Graduate Assistantships** are available. Contact the department chairperson, Buzzard Education Bldg., EIU. Phone: (217) 581-5315.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

**4765. Gifted and Creative Students. (3-1-3)** A course in identifying gifted and creative children, studying their characteristics, their diversity of talents, and curriculum provisions.

**4800 (4770). Diagnosis of Children with Exceptionalities. (3-2-4)** Course deals with means and methods of diagnosing the educable mentally handicapped, learning disabled, and socially and emotionally maladjusted. Includes essentials of psycho-educational testing, formal and informal instruments of assessment, and interpretation of results. Prerequisites: Special Education 3000; 3250 or 3260 or 3280 or permission of the department chairperson.

**4820 (4750). Educational Assessment of the Pre-School Child. (3-0-3)** The nature and characteristics of young handicapped children and the study of identification and assessment techniques for teachers of pre-school children. Prerequisite: Special Education 3000 or concurrent enrollment.

**4920 (4760). Educating the Pre-School Child with Handicaps. (3-1-3)** Special need of the pre-school handicapped child. Teaching techniques and curriculum modifications related to perceptual, conceptual, and language abilities, and to the development of the self-concept. Prerequisite: Special Education 4820 or substitute recommended.

**4950. Methods of Teaching Children with Learning Disabilities. (3-1-3)** This course deals with the various methods and techniques of remediation of children with learning disabilities. Prescription writing, procedures of teaching; curriculum needs, and classroom management of such children will be studied. Prerequisite: Special Education 4800 or permission of the department chairperson.

**4960 (4900). Methods of Teaching Children with Mental Handicaps. (3-1-3)** Class and curriculum organization and introduction to methods and techniques of teaching educable mentally handicapped children. Prerequisites: Special Education 3000 and 4800 or permission of the department chairperson.

**4980 (4880). Methods of Teaching Children with Behavior Disorders. (3-1-3)** Remedial methods of teaching with socially and emotionally maladjusted. Prerequisite: Special Education 4800 or permission of the department chairperson.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the

Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

**5120. Current Issues in Special Education. (3)** A study of the cultural, sociological, educational and legal factors which are relevant to the understanding of etiological and therapeutic problems of emotional children.

**5670. Assessment for Special Education. (3)** An advanced course in psycho-educational diagnosis of exceptional children. Administration and interpretation of normed and criterion referenced instruments. Prerequisite: Special Education 4800 or equivalent.

**5770. Practicum in Special Education. (3-6)** Supervised developmental and/or remedial work with exceptional children in behavioral and academic areas. The student will gain experience in writing individualized educational programs. This course may be repeated for six semester hours credit.

**5870. Supervision and Curriculum in Special Education. (3)** Curriculum development for various special education programs and their rationale. Develop an understanding of the role of the special educator in relation to the school and community. Prerequisite: Twelve semester hours in special education or permission of the chairperson of the department.

**5900. Research in Special Education. (3)** Students in this course will develop skills necessary to analyze research designs involving special education methodology and will be able to interpret statistics through multiple regression.

**5950. Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

**5990. Independent Study. (1 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

### SPEECH COMMUNICATION

Degree offered: M.A.

Major: Speech Communication

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General) score.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 17.

**Graduation Requirements:** Same as for Graduate School. See page 18.

**Requirements for Degrees:** Each program is designed to meet individual student interests. The student should select one of three areas of interest: Rhetoric and Public Address; Interpersonal and Organizational Communication; or Mass Media. The program is subject to the approval of the Speech Communication Department.

**Graduate Assistantships** are available. Contact the department chairperson or graduate Speech Communication Coordinator, 114 Coleman Hall, EIU. Phone: (217) 581-2016.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

**4750. Advanced Theory of Mass Communication. (3-0-3)** Survey of legal procedures of broadcast law, a survey of audience analysis, the structure of mass communications audiences, propaganda, communication networks, social and self-regulation of the media, and current research. Prerequisite: Speech Communication 2520 or Journalism 2100 or graduate standing.

- 4760. Theories of Interpersonal Communication. (3-0-3)** An examination of contemporary theories and models.
- 4800. Contemporary American Public Address. (3-0-3)** Study of competing points of view on a series of critical issues of the twentieth century.
- 4820. Fundamentals of Public Relations. (3-0-3)** Techniques of a positive public relations program, including the process, tools and application. Prerequisite: Journalism 3100 or 3820 or permission of the instructor. Credit not granted for both Speech Communication 4820 and Journalism 4820.
- 4860. Psychology of Speech. (3-0-3)** Study of the nature, origin, and purposes of speech; basic psychological principles; the communicative process; group communication; personality and speech.
- 4920. Case Studies in Public Relations Problems. (3-0-3)** Public relations case problems in industry, business, labor, education, government, social welfare and trade associations; the application of public relations techniques. Prerequisite: Speech Communication 4820 or permission of the department chairperson. Credit not granted for both Speech Communication 4920 and Journalism 4920.
- 4996. Problems in Teaching Speech. (3-0-3)** The analysis of specific problems peculiar to speech education and problems in general education applicable to the speech classroom.

## GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5000 (5900). Introduction to Graduate Study. (3)** An introduction to research methods, bibliographical resources, and professional writing in the field of speech. Required of all speech communication graduate students.
- 5030. Seminar. (3) On demand.** A study of different aspects of speech communication. Topics will vary according to student demands, availability, and interest of faculty.
- 5100. Advanced Argumentation Theory. (3)** A study of advanced theory into the nature, function and structure of argument.
- 5320. Background of Rhetoric. (3)** A study of rhetorical theory from 465 B.C. through 1400 A.D.
- 5400. American Public Address. (3)** A study of the influence of public speakers on the creation of American ideals and policies during the colonial and early national period to 1850.
- 5410. American Public Address. (3)** A study of public speaking in America from 1850 through the early twentieth century.
- 5420. Operation and Regulation of Broadcast Stations. (3)** A study of federal regulations and operation techniques used by the U.S. broadcast stations as related to programming, sales, news, personnel hiring, licensing and related items.
- 5430. Economics of Mass Media. (3)** A study of the sales department of the media institution as the prime source of revenue.
- 5440. Television Criticism. (3)** A study of various critical approaches to the

analysis of the medium of television. Consideration will be given to various methodological and theoretical approaches to the study of the historical, economic, political, cultural and sociological impact of television.

- 5450. The Nature and Problems of Mass Communication. (3)** Analysis of problems resulting from the use of the mass media as channels of communication. Emphasis on the decision making process within the media, the media's function as channel for information, the media's function as channel for persuasion, and the media's role in the support or change of cultural norms.
- 5460. Seminar on Film History. (3)** A study of the unique problems of film history, through an analysis of various national cinemas. The course instructor will decide on the specific area to be covered and will design the seminar's work around it.
- 5580. Theories of Leadership in Communication. (3)** An investigation of leadership theories and their relationship to interpersonal communication.
- 5600. Deliberation of Human Problems. (3)** Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems.
- 5620. Modern Rhetorical Theory. (3)** Survey of twentieth century theories of rhetoric.
- 5720. British Public Address. (3)** Study of British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.
- 5760. Laboratory in Human Interaction. (3)** Practical application of major communication theories. Prerequisite: Speech-Communication 4760 or 2830 or permission of the instructor.
- 5830. Seminar in Teaching Speech on the College Level. (3)** Objectives: problems, methods, materials in teaching college speech. An evaluated teaching unit is required. Prerequisite: Nine semester hours in speech or permission of the department chairperson.
- 5890. Philosophical Foundations of Speech. (3)** Studies designed to synthesize the student's rhetorical background and to philosophically relate rhetoric to philosophy, logic, politics, ethics, and language.
- 5950. Thesis. (3 to 6) Note:** A maximum of nine semester hours may be earned in a combination of 5950 and/or 5990 and/or 5997.
- 5990. Independent Study. (1 to 6)** The study of and reports on a specific problem in speech. Student presents an individual study plan for researching history, theory, and/or practice of speech. *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and/or 5950 and/or 5997.
- 5997. Study Abroad. (3 to 6)** Special permission of the department. *Note:* A maximum of nine semester hours may be earned in a combination of 5997 and/or 5950 and/or 5990.

## SPEECH PATHOLOGY AND AUDIOLOGY

With appropriate education coursework, including student teaching, and an appropriate undergraduate speech pathology major, this program meets the requirements for the certificate for teachers of speech and language impaired in Illinois



**schools.** With an appropriate undergraduate speech pathology major this program meets the requirements for the American Speech and Hearing Association Certificate of Clinical Competence in Speech Pathology.

**Degree offered:** M.S. Major: Speech Pathology

**Accreditation:** Education and Training Board of the American Speech and Hearing Association.

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General) or MAT score. In addition, students must have at least a 2.75 grade point average ( $A = 4.0$ ) in the undergraduate speech pathology major. Admission to this program is limited to 30 students per year; however, additional students may enroll in all coursework (except supervised clinical practice courses) on a non-degree basis. Admission to the program is determined by a graduate faculty committee which considers all applications including transfers from other four-year colleges and universities.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. See page 17.

**Graduation Requirements:** Same as Graduate School Requirements (see page 18).

#### Requirements for Degrees:

Major: (without thesis)

Speech Pathology and Audiology 4760, 4770, 4780, 4850, 5350, 5390, 5430, 5470 (8 sem. hrs.), 5490	27 sem. hrs.
Electives	8 sem. hrs.
Total	35 sem. hrs.

Major: (with thesis)

Speech Pathology and Audiology 4760*, 4770*, 4780*, 4850, 5350*, 5390, 5430*, 5470 (8 sem. hrs.), 5490*, 5950 (6 sem. hrs.)	33 sem. hrs.
Elective	1 sem. hr.
Total	34 sem. hrs.

\*Up to six s.h. of course work indicated may be replaced by credit for thesis (SPA 5950) by department permission but in no case may the total be lower than 33 s.h.

**Graduate Assistantships** are available in the Speech Pathology and Audiology Department and may be available in an area veterans administration hospital and an area community college. Contact Graduate Coordinator, Speech Pathology and Audiology Department, 203 Clinical Services Bldg., EIU. Phone: (217) 581-2712.

#### COURSE OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

- 4750. Independent Study. (Arr.-Arr.-1-6) (May be repeated to a maximum of six semester hours.)** Independent directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the department chairperson.
- 4754. Communication Skills with the Deaf. (1-2-2)** Development of basic skills in the use of cued speech and Signed English; laboratory use of audio and video tapes to practice receptive skills; direct interaction with the instructor for practice in delivering and receiving cues and signs. Prerequisite: Permission of the department chairperson.
- 4755. Research Methods and Design. (2-0-2)** Introduction to research

methods and experimental design in speech pathology and audiology. Prerequisite: Permission of the department chairperson.

- 4758. Phonological Assessment and Remediation. (1-0-1)** Development of basic skills in phonological assessment and remediation. Practical application of learned skills is stressed. Prerequisites: Speech Pathology and Audiology 1100 and 2800.
- 4760. Advanced Audiology. (2-0-2)** Advanced study of the assessment of hearing losses. Emphasis on a functional test battery, diagnostic problems, and hearing aid selection. Prerequisite: Speech Pathology and Audiology 3600.
- 4770. Advanced Study in Language Disorders. (2-0-2)** Language patterns of children and adults with oral communication impairments. Emphasis on the diagnostic and corrective procedures. Prerequisites: Speech Pathology and Audiology 2210, 2800, 3500; Psychology 5015 or permission of the instructor.
- 4780. Voice Disorders. (2-0-2)** Advanced study of etiology and correction of functional and organic voice problems. Voice pitch, quality, and intensity. Prerequisite: Speech Pathology and Audiology 3300.
- 4800. Speech-Language-Hearing Services in the Schools. (3-0-3)** Classification, incidence, prevention, and classroom management of defective speech and nature of speech correction services. Students with credit in Speech Pathology and Audiology 2800 may not also have credit in Speech Pathology and Audiology 4800.
- 4850. Professional Relationships for the Speech-Language Pathologist. (2-0-2)** Conducting and participating in speech-language professional staffings, presentation of clinical information to parents and relatives of speech-language handicapped clients, and establishing a professional role in various work settings. Elective for students writing a thesis.

#### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

- 5350. Articulation Disorders. (2)** Advanced study of causes and treatment of articulation disorders. Testing, symptomatology and correction are stressed. Prerequisite: Speech Pathology and Audiology 3300.
- 5390 (4790). Stuttering. (3)** Advanced study of the problem; integration of prominent theories and treatment in stuttering; analysis of significant findings and trends in research on stuttering. Prerequisite: Speech Pathology and Audiology 3410.
- 5430. Aural Rehabilitation II. (3)** Continued study of aural rehabilitation including medical, psychological, vocational aspects and amplification systems. Prerequisites: Speech Pathology and Audiology 3600, 3651, 4760.
- 5470. Advanced Clinical Practice. (1 to 3; or 1 or 2 Summer)** Supervised corrective work with clients with speech and/or hearing defects. Prerequisite: Speech Pathology and Audiology 4700; permission of the Director of the Speech and Hearing Clinic. May be repeated for a maximum of eight semester hours.
- 5490. Organic Speech Disorders. (3)** Diagnosis and therapy for aphasia and

related disorders. Prerequisite: Speech Pathology and Audiology 3500 or permission of the instructor.

**5950. Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

**5990. Independent Study. (1 to 6)** Independent, directed study of a specific problem or problems in speech pathology, audiology, speech or hearing correction. Prerequisite: Permission of the instructor and the department chairperson. Note: A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

## TECHNOLOGY EDUCATION

The program in Technology accommodates students wishing to teach industrial arts in the public schools and those wishing to qualify for industrial technology work in areas such as government, private industry and military. Elective courses allow students to specialize and to develop individual competencies such as graphics, power mechanics or energy.

Degree offered: M.S.

Majors: Technology  
Technology Education

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General) or MAT score.

**Study Plan Approval:** The Study Plan shall be approved by the school and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as for Graduate School (see page 18).

**Graduate Assistantships** are available. Contact the School of Technology dean or graduate coordinator, 101 Applied Arts Center, EIU. Phone: (217) 581-3719 or 581-2916.

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

**4913. Organization and Administration of Cooperative Occupational Education. (3-0-3)** Introduction to cooperative education programs, program needs, resources, constraints, public relations, and policy development are analyzed.

**4923. Coordination Techniques for Cooperative Occupational Education. (3-0-3)** Methods and techniques for preparation of teacher coordinators. Student selection, training agreements, training plans, legal requirements, related class management, individualized instruction, and program evaluation are emphasized.

**4953. Student Achievement and Program Evaluation. (3-0-3)** Comprehensive study of techniques of evaluation and criteria for program evaluation. Prerequisite: Technology Education 3400.

**4993. Teaching Construction Trades. (3-0-3)** Study of materials generally available for use in residential building construction trades and an investigation of teaching techniques unique to the initiation and development of vocational building construction trades programs for secondary schools and community colleges. Prerequisite: Permission of the instructor.

### GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade

point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

**5060. Administration and Supervision of Occupational Education. (2) On demand.** To prepare personnel for administering and supervising occupational education programs. Team teaching in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.

**5070. Seminar in Occupational Education. (3) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.

**5080. Seminar in Occupational Education. (1) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.

**5090. Seminar in Occupational Education. (1-4) On demand.** Intensive study of contemporary problems, issues, trends and developments in occupational education and technology. Offered in Business Education, Educational Guidance, Health Education, Home Economics, and Technology Education. A student may take the course for credit in only one of the departments.

**5143. Readings in Technology. (3)** Examination of the characterology and philosophical base of technology and its affects on humankind and society. Emphasis on the process of research, synthesis, and analysis.

**5153. Technical Developments in Technology. (3)** Study of past and present foundational technical developments. Students will trace their technical heritage and identify significant technological developments in production, communication and energy.

**5163. Contemporary Problems in Technology. (3)** Study of present and future foundational technical developments. Emphasis on investigating future technical developments through forecasting, paradigm construction and scenario development.

**5653. History and Philosophy of Technology Education. (3)** A study of past foundational professional developments, pedagogical goals, and objectives of Russian Sloyd, Manual Training, Manual Arts, Vocational Industrial Education, Industrial Arts and Technology Education.

**5723. Issues and Trends in Technology Education. (3)** A study of present and future foundation professional developments in technology education. Students will investigate and identify the state of the art trends and issues facing the profession today.

**5800. Seminar in Technology. (1-4)** Reports and discussions of selected topics in technology. May be taken more than once but no more than four semester hours may count toward the major.

**5803. Facility Planning in Technology Education. (3)** Study facilities and equipment needs for teaching technology education, opportunity is provided for planning new laboratories and redesigning established laboratories.

**5950. Thesis. (3 to 6)** Note: A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

**5990. Independent Study. (1 to 6)** Preparation of instructional display panels and devices. Slides, transparencies, etc., research papers. Note: A maximum of nine semester hours may be earned in a combination of 5990 and 5950. Prerequisite: Permission of the instructor and approval of the Dean, School of Technology, required before registration.

## THEATRE ARTS

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

**4810. Summer Theatre. (Arr.-Arr.-3 or 6 or 9)** The course is designed to give practical, comprehensive experience in dramatic art. Credit for six or nine semester hours may be earned in one summer.

**5990. Independent Study. (3-6)** Advanced study in a selected area of theatre arts, subject to approval of advisor. Prerequisite: Permission of the department chairperson and acceptance by the instructor.

## ZOOLOGY

The graduate program in Zoology allows students, by careful selection of elective courses, to specialize in environmental studies, vertebrate studies, physiology, behavior, entomology or genetics. Special laboratory facilities including electron microscopy, and a large number of outdoor facilities such as State Parks, Nature Preserves, and local streams, reservoirs, and watersheds are available.

Degree offered: M.S.

Major: Zoology

**Admission Requirements:** Degree status admission to the Graduate School (see page 15), GRE (General and Subject) test scores, Zoology Departmental Information Form, and three letters of recommendation from persons familiar with the applicant's academic ability must be filed in the Zoology Department. Applicants should have a background in the biological sciences and a 2.6 grade point average (A = 4.0) in courses in biological sciences over the last six quarters or four semesters of study. Applicants must also have one year of college chemistry and should have a course in organic chemistry. Applicants are expected to be proficient in the traditional disciplines of general zoology, embryology, ecology and environmental biology, genetics, anatomy and physiology. Students admitted to the zoology program will take a qualifying exam during their first term of study to identify possible deficiencies in these six areas of undergraduate zoological study. Students may be required to remedy undergraduate deficiencies by taking courses which do not count toward the graduate degree.

**Graduate Assistantships:** Teaching assistantships in the Zoology Department are available. In addition, assistantships with duties to area state and federal agencies and research assistantships may be available. Contact department chairperson or graduate coordinator, Department of Zoology, 202 Life Science Bldg., EIU. Phone: (217) 581-3126.

**Study Plan Approval:** The Study Plan shall be approved by the department and filed in the Graduate School Office prior to the completion of 12 semester hours of graduate credits which count toward the graduate degree. Also see page 17.

**Graduation Requirements:** Same as for Graduate School (see page 18).

### Requirements for Degrees:

(with thesis)

Zoology 5100	2 s.h.
Zoology 5150 (2)	2 s.h.
Zoology 5950	3-6 s.h.
Zoology 5990	0-3 s.h.
Courses in Zoology 5000 + (not including 5990, 5950 & 5150)	10-23 s.h.
Courses numbered 4750-4999	0-13 s.h.
Courses for graduate credit in related fields	0-6 s.h.
<b>TOTAL</b>	<b>30 s.h.</b>

(without thesis)

Zoology 5100	2 s.h.
Zoology 5150 (2)	2 s.h.
Courses in Zoology 5000 + (not including 5990, 5950 & 5150)	12-25 s.h.
Zoology 5990	0-3 s.h.
Courses numbered 4750-4999	0-13 s.h.
Courses for graduate credit in related fields	0-9 s.h.
<b>TOTAL</b>	<b>32 s.h.</b>

### COURSES OPEN TO JUNIORS, SENIORS, AND GRADUATE STUDENTS

**4750. Cytology. (1-4-3)** A study of the structure and function of cells and their component organelles; cytochemical theory and techniques. Prerequisite: Zoology 4510 and 4540 recommended.

**4755. Organic Evolution. (3-0-3)** Fundamental principles of organic evolution stressing historical fact, evidences for and processes common to all biota. Prerequisite: Sixteen semester hours of biological science.

**4760. Invertebrate Zoology. (2-2-3)** The phylogeny, morphology, physiology and biology of invertebrate animals. Prerequisite: Zoology 1010.

**4764. Invertebrate Field Studies. (2-3-3)** Identification, relationships, life histories and adaptations of regional invertebrates not covered fully in other courses. Aquatic and soil forms emphasized. Prerequisite: Zoology 1010.

**4766. Advanced Entomology. (2-4-4)** A study of the common families of the major insect orders. Prerequisite: Zoology 3700.

**4769. Fisheries Management. (1-4-3)** Fundamentals of anatomy, classification, life histories and conservation of fish. Field work and study of local fishes are stressed. Prerequisite: Zoology 3300.

**4770. Ichthyology. (1-4-3)** Advanced study of the evolution, anatomy, taxonomy and distribution of the fishes of the world. Prerequisite: Sixteen semester hours of zoology, including Zoology 3300.

**4772. Herpetology. (2-2-3)** Phylogeny, adaptation, ecology, distribution and identification of amphibians and reptiles. Prerequisite: Zoology 2000 or 2100, 3300.

**4774. Ornithology. (2-3-3)** The identification, classification, distribution, and natural history of midwestern birds. Prerequisite: Zoology 3300.

**4777. Mammalogy. (2-2-3)** A study of mammals with emphasis on classification, distribution, natural history and ecology. Prerequisites: Zoology 2000 or 2100, 3300.

**4800. Terrestrial Ecology. (2-3-3)** Interrelationships among animal populations, biotic communities, and physical environments in terrestrial ecosystems.

Prerequisites: Environmental Biology 2010 and eight semester hours of zoology.

**4810. Limnology. (1-4-3)** The physical environment and biological communities involved in fresh water ecosystems. Prerequisites: One year of chemistry; ten semester hours of zoology.

**4840 (Life Science 4840). Advanced Genetics. (3-0-3)** Study of genetics on the molecular and biochemical levels, including structure, function, transmission, and regulation of the genetic material, in procaryotes and sucaryotes. Prerequisite: Life Science 3200 or organic chemistry; biochemistry recommended.

**4850. Comparative Vertebrate Physiology. (3-0-3)** A comparison of physiological activities in fish, amphibians, reptiles, birds and mammals exhibited in their natural environment. Prerequisite: Zoology 3100; one course in organic chemistry and biochemistry recommended.

**4900. Cardiovascular Physiology. (3-2-4)** An in-depth study of the development, function and control mechanisms of the heart and circulatory system. Dysfunction and diseases are also examined and treatments are discussed. Prerequisite: Zoology 3100 or equivalent.

## GRADUATE COURSES

(Courses numbered 5000-5499 inclusive may be taken by a senior whose grade point average is 2.75 or higher, with permission of the instructor and the Dean of the Graduate School. Courses numbered 5500 and above are open only to students who have been admitted to the Graduate School.)

**5000. Zoogeography. (3)** Analysis of the geographical distribution of recent animals. Prerequisite: Zoology 4800 or Botany 4811.

**5100 (Life Science 5100). Introduction to Graduate Study and Research. (2)** The principle of biological research, including review of literature, defining and organizing problems, and effective presentation of data. Required for all beginning graduate students in environmental biology or zoology, to be taken the first fall term of graduate study. Credit not granted for both Zoology 5100 and Environmental Biology 5100.

**5150. Seminar. (1)** Enrollment required twice for all graduate students. A maximum of three semester hours credit may be applied to a graduate program.

**5200. History of Biology. (2)** The development of biology from prehistory to date; contributions by various civilizations; the growth of specific fields. Prerequisite: Sixteen semester hours of biological science.

**5210 (Life Science 5200). Evolutionary Ecology. (3)** The study of natural selection and how it related to adaptive strategies of ecological phenomena in plant and animal populations and communities. Emphasis will be on theoretical aspects of current ecologic topics. Prerequisite: Zoology 4800 or Botany 4811; Zoology 4755 is recommended.

**5225. Systematics. (3)** A study of the methods and principles of animal taxonomy, including speciation. Prerequisite: Sixteen semester hours of biological science.

**5255. Protozoology. (3)** The morphology, physiology, ecology and life histories of free living and parasitic protozoa. Includes laboratory and field studies. Prerequisite: Eight semester hours of zoology.

**5300 (Life Science 5300). Transmission Electron Microscopy. (3)** A study

of methods of preparing biological materials for transmission electron microscopy, theory of electron optic systems, mode of operation of the transmission electron microscope, and associated photomicrographic techniques. Prerequisite: Permission of the instructor.

**5370 (5700). Aquatic Entomology. (3)** An in-depth study of the biology and taxonomy of aquatic insects with emphasis on local forms. Prerequisite: Sixteen semester hours of zoology; Zoology 3700 recommended.

**5375. Wildlife Management. (3)** The principles of wildlife management with emphasis on terrestrial game animals; their ecology, life histories and conservation. Prerequisite: Eight semester hours of zoology including Zoology 3300; Zoology 4774 and 4800 recommended.

**5380. Animal Behavior. (3)** Theoretical and experimental studies of the principles of animal behavior. Prerequisite: Sixteen semester hours of zoology, or permission of the instructor.

**5400. Cell Physiology. (4)** A study of the fundamental physical and chemical processes which underlie cellular structure and function. Prerequisites: Zoology 3100 and one course in organic chemistry.

**5410. Developmental Zoology. (4)** A study of classical and recent contributions to the understanding of embryonic development. Prerequisite: Sixteen semester hours of biological sciences including Zoology 2200; biochemistry recommended.

**5420. Endocrinology. (4)** A study of the endocrine glands, the action of hormones, and the general features of the endocrine system. Prerequisites: Sixteen semester hours of zoology, and at least one course in organic chemistry.

**5950. Thesis. (3 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5950 and 5990.

**5990. Independent Study. (1 to 6)** *Note:* A maximum of nine semester hours may be earned in a combination of 5990 and 5950.

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